User manual

Joy

Symphony

E 1.3

REVOX

Dominating Entertainment.
Revox of Switzerland.

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Welcome

The audiophile active system Symphony from Revox connects the latest streaming technology with a sound-mature output, which drives a 2-way speaker pair using a digital signal processor (DSP).

With its multi-braced wooden housing, the Symphony matches up in every respect to the expectations that Revox places on all its speakers. A full-function stereo speaker united in one housing is the result of this symbiosis. This can be heard through the solid bass underpinning and the uniform emission characteristics over the whole frequency range. And the raised volume levels called for by a Saturday evening party are not an issue for the Symphony. The long-stroke bass speaker provides enough reserves to take the volume up to a level of 105 dB.

For the benefit of audiophile music lovers, Revox has deliberately avoided the use of fans. So that nonetheless, the Symphony can keep a cool head, even when the temperatures outside top the 40°C mark, a heat coupler has been used. This aluminium heat pipe dissipates the heat away from the network processor over a gold-plated coating on a large area of copper. The heat can escape from the inside of the housing through the convection openings on the base and the rear. In this way, we achieve a processor temperature that is lower by up to 30°C, which impacts positively on the processor stability and ensures a long working life.

In order to keep the operation on a par with the sophisticated technology, a lot of time and effort was invested in the detail of the optional S208 Remote control. It can also be used as a system remote control for television, BluRay player and other entertainment electronics or for the Joy range of Revox network receivers.

Operation through Revox Apps running on Apple or Android devices is of course also possible.

This product innovation from Revox stands out as a true system for life, thanks to its legendary robustness and longevity, which the brand is known for throughout the world.

Setup

Please check the unit and accessories after unpacking, to ensure that everything is there and that there are no signs of transit damage. Read the User manual through carefully before starting to use the unit. Keep the manual for later reference.

A unit that shows signs of mechanical damage or which has had liquid in it should not be connected to the mains supply.

Only use the mains cable supplied. When using an alternative power cord, the ratings must meet 10A/125V. The alternative power cord requires a certification (UL / CSA / VDE).

The unit's power supply and connections values (mains voltage, frequency) must be checked before connecting it to the mains.

Scope of delivery

- Symphony (1x)
- Wi-Fi antenna (1x)
- Power cable (1x)
- Network cable (1x)
- Quick Reference Guide
- User manual CD [1]
- F-socket adapter for FM [2]
- Antenna cabel [2]

[1] Contains the complete Symphony German/English User manual in PDF format. A PDF Reader is required.

[2] Optional accessory for t he DAB+/ FM module

Safety

Take note of the label on the back of the unit.

In order to avoid the risk of an electric shock, do not open the housing. Maintenance and repairs should only be carried out by qualified experts.

Caution: Lithium batteries (internal)

- Danger of explosion if battery is incorrectly replaced. Replace only with the same or equivalent type – **CR2032** 3V.
- Batteries shall not be exposed to excessive heat such as sunshine, fire or the like.
- Batteries that are incorrectly used or that are inserted the wrong way round can explode!
- Take note of the disposal hints within the chapter *Appendix.*

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Installation - Safety advice

- Please follow the instructions in the User manual supplied.
- Do not position the unit close to strong heat sources or in direct sunlight.
- Please take note of the following, if the Symphony is to be installed in a cabinet or closed shelves. Allow at least 5 cm/ 2 inches of free space around the device, so that the air can circulate freely and that there is no build up of heat. Do not cover openings on the back wall or in the base of the unit.
- It must be ensured that the correction functioning of the unit's ventilation openings is not affected by being covered, e.g. by curtains, newspapers, table cloths, or similar.
- This unit conforms to protection class 2. This means that with this unit, the ground cable is not connected to the housing, in order to effectively eliminate sound-damaging ground-loops.
- The power plug should be removed from the socket during longer periods of non-use, for instance during an absence.
- Unplug the unit from the mains during storms. Voltage peaks through the mains power supply caused by lightning strikes can damage the unit.
- There must be easy access to the power plug so that the unit can be unplugged at all times.
- Lay the power cable such that it cannot be damaged. The power cable should not have kinks or be laid over sharp edges. It should not be walked on or be exposed to any chemicals. The last point is valid for the whole unit. A power cable with damaged insulation can lead to electric shocks and represents a fire hazard.
- Never pull on the cable when plugging the unit in or out. Always hold the plug.
- Liquids, flammable or other objects should not be inserted in the unit's openings as this can lead to faults, fire or an electrical shock.
- Do not expose the device to splash water or high levels of humidity. Do not stand containers filled with liquid, e.g. flower vases, on the device.
- It is only designed for operation in temperate, non-tropical climates.
- Take note of and follow the safety advice on the following pages.

Safety measures

Read and take note of the following safety advice for your own safety and to avoid unnecessary damage to your equipment. Please keep this safety advice in a safe place for future reference.

Avoid locating the unit in a position which:
- is exposed to direct sunlight
- is directly next to a source of heat
- has poor ventilation
- has a dusty atmosphere
- is unstable
- has high humidity

The guarantee covers the intended usage of the unit.

High build-ups of dust and humidity cause creepage current in the unit that can cause a risk of shocks when touching the unit or lead to a fire.
If you have moved the unit from a cold to a warm environment, leave it switched off for about two hours because of a possible build up of condensation dampness.

You should always unplug your Symphony before connecting or disconnecting other devices or speakers.

Protect your unit from:
- damp, dripping water and steam
- impacts and mechanical loads
- magnetic and electrical fields
- cold, heat, direct rays of the sun and severe changes of temperature.
- dust
- accesses to the inside of the device

Do not stand any articles with open flames, e.g. lit candles on the unit.

Please note
In order to exclude the risk of an electric shock, do not remove the housing. Only have repair work carried out by a Revox specialist dealer.

Volume
Loud music can cause hearing damage. Avoid extremes of volume, particularly over longer periods of time.

Supervision
Do not allow children to handle the equipment without supervision. Do not allow children in close proximity to the unit. Do not operate the Symphony without supervision. Unplug the unit if you are going to be absent for a longer period of time.

Cleaning
The unit should be cleaned using just a damp, soft and clean cloth without any abrasive cleaning agents.

Regulations pertaining to the unit

In EU and EEC countries, Revox offers a guarantee on units bought in the EU, over and above the statutory rights of guarantee claims against the seller. The guarantee covers material and labour during the period of the guarantee, which is defined by the Revox Sales Partners in the individual countries that make up the EU.
In all countries, the guarantee services offered by the Revox Sales Agents are over and above the statutory regulations. They are only valid in the country of purchase. Proof of purchase from an authorised Revox Partner must be produced to make a claim on the guarantee.
The guarantee is made null and void in the case of incorrect intervention measures or non-professionally executed repairs.

Positioning

The positioning of the speakers has an important influence on the quality of the reproduction. For this reason, a lot of attention was paid during the development of the Symphony so that it could be deployed flexibly in different positions. Thanks to its good, uniform all-round emission characteristics, the Symphony doesn't have to be positioned at ear level or directed towards the listener.

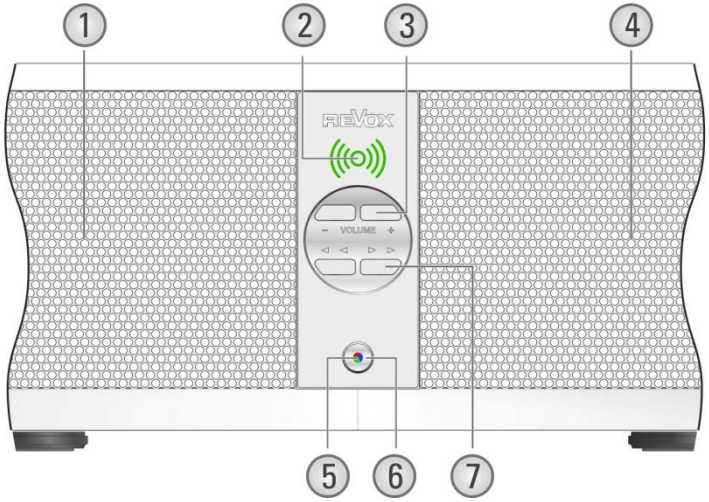
If you want to place the Symphony on a table or a similar flat surface, you should select the corresponding position option in the Audio Setup menu. You will find more information in the chapter *Audio Setup/Placement*.

You should avoid placing objects in front of the Symphony, in order to obtain the best musical reproduction and the maximum operating distance between the wireless module and the bi-directional S208* Remote control.

If you are controlling the Symphony through the S232 (Apple) or S235 (Android) Revox Apps, it is only the network access that influences the reception quality, not the wireless module. If there is insufficient reception quality with a WLAN connection, an antenna extension or a WLAN Repeater can improve matters.

*optional

Front of the Symphony



	Function
1	Lefthand coaxial speaker (2-way principle) with bass reflex opening
2	Wireless module for bi-directional data traffic with the optional S208 Remote control
3	Loud-Quiet (+/-). Volume level can be set from 0 to 40; with comfort switch-on volume.
4	Righthand coaxial speaker (2-way principle) with bass reflex opening
5	Multi-colour status LED
6	On/off button
7	Selection buttons (◂◂ ▸▸) for MyMusic entries

Operating panel

The Symphony's operating front panel is divided up into a button panel for the most important everyday functions without remote control, an on/off button with multi-colour status LED and the concealed wireless module for the bi-directional S208 Remote control.

Volume +/-
Volume setting with comfort switch-on volume. If the volume is set to a level higher than [Vol 20] or if the volume is set to [VOL 0] when it is switched off, a discreet volume level [Vol 10] is used when the device is switched on again.

MyMusic ◀◀ ▶▶
Using the ◀◀ and ▶▶ buttons, you can scroll through the occupied **MyMusic** folder entries without a remote control. Any of the possible total of 18 entry positions that are empty are skipped.
By pressing on either of the ◀◀ ▶▶ buttons, you can always switch from what is currently playing, e.g iPod, optical, Audio server, etc., to the MyMusic entries.

On/off button with status LED
You can switch the Symphony on and off with the circular button. The LED within the button indicates the current operating status of the Symphony. Please refer to the next page for more details.

Display colours: Status LED

Dark-blue ●

Quickstart function [off]:
In this standby mode, all functions, with the exception of the RF module, are deactivated.
Power consumption: < 0.6 W

A deactivated quickstart mode [off] does not support the USB input for charging external devices, e.g. an iPhone.

Light-blue ●

Quickstart function [on]:
Unit is in standby mode. If the Quickstart function is activated, the network processor is switched on permanently. This significantly reduces the switch-on phase, as the connection to the network doesn't have to be built up again. All other sub-assemblies, such as the audio signal processing or the outputs, are switched off, as with normal standby mode. Quickstart mode is also a requirement, in order to be able to control the receiver with a network-based Revox App **S232** (Apple)/ **S235** (Android).
Power consumption: approx. 4.5 W*

The USB input supports the charging of external devices, e.g. an iPhone in quickstart mode [on].

* without USB feed

Green ● (flashing)

After plugging in the power cord, the status LED flashes green for about 10 seconds. During this time, the S208 remote control can be paired/ synchronised with the Symphony, i.e. these two devices can be connected with each other, functionally. You will find the necessary steps for this procedure explained in the *S208 Remote control* chapter.

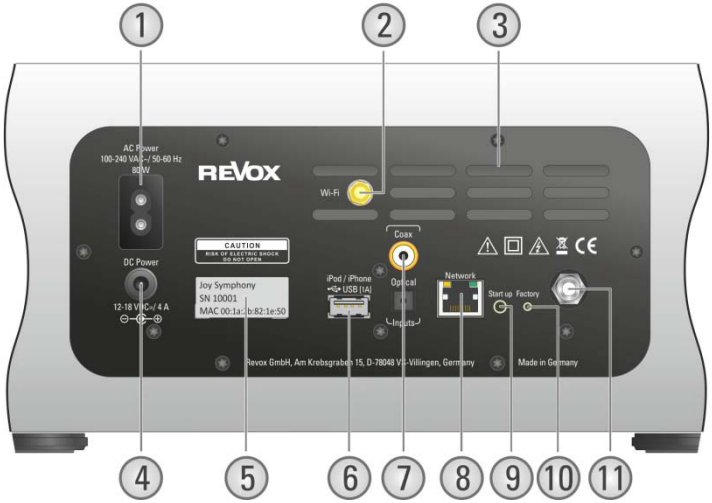
Software-Update
The green status LED flashes during a software update, whether via USB or over the Internet.

Red ● (flashing)
A non-defined fault has occurred. If necessary, briefly disconnect the device from the mains.

Red ● (permanent)
The timer in the Symphony is active. This can be the case, for example, if the timer function is activated, with which the Symphony switches itself on automatically after a certain time.

White ○
The Symphony is in operation.

Connection panel Symphony



	Name	Function
1	AC Power	Power cable connection (Class 2). 100 - 240 VAC ~ / 50 - 60 Hz
2	Wi-Fi	WLAN antenna connection for wireless audio streaming (iRadio, NAS) and App control, supplied with the unit
3	Ventilation	Ventilation opening through to the base of the unit
4	DC input	DC connection (12 - 18 VDC) for a power supply from the on-board power network of a caravan, camper or boat.
5	Rating plate	Unit-specific data such as serial number, etc.
6	USB[1] / iPod / iPhone	USB B input for USB memory stick (< 32 GB) or iPod/iPhone connection.
7	*Digital IN* Optical Coax	Digital audio inputs: - through fibre optic - TOSLink - max. 96 kHz - through coaxial cable - max 192 kHz
8	Network	RJ45 network connection for wired audio streaming (iRadio, NAS) and for App control
9	Start up	On/off button. Identical function as power button on the front panel.
10	Factory[2]	Reset button for restoring factory defaults. Can be activated using a paper clip.
11	DAB/ FM[3]	Antenna input for an optional FM/DAB module. Optimised for cable reception.

Connection panel info

[1] USB storage*
Use the USB connection only for USB storage up to 32 GB, as large amount of data can lead to long read-in terms. Sometimes a capturing of content is even impossible.
A network hard drive (NAS) with UPnP service is recommended for a large music collection.
*with FAT16/32 formatting

[2] Unplug the Symphony from the mains – keep pressing the Factory button – plug in the Symphony power cord to the mains. Release the Factory button after 5 secondes.

[3] not supplied with the Symphony

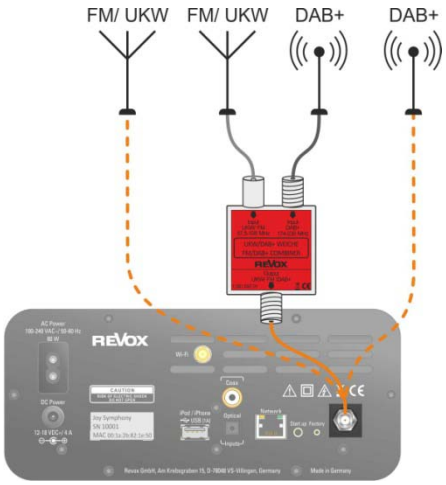
Power supply info
The Symphony can be powered through mains power (100 - 240 VAC ~ / 50 - 60 Hz) or through a DC source (12 - 18 VDC, 3A). Only one power source should be selected at any one time, even though an internal control prevents any damage being caused by parallel power operation.

USB information
Revox recommends that you only use the USB connection for data carriers up to 32 GB as with large data quantities, the reading time increases greatly or it can be impossible to record data. With a large music collection, we recommend using a network hard disc (NAS) with an UPnP service e.g. the Revox S37 audio server with integrated rip function.

DAB+/ FM combiner information
As an option, the Joy Symphony can be ordered with a DAB+/FM module or it can have one fitted retrospectively.

If only one of the two reception methods is required, the antenna signal can be fed directly into the F socket on the rear of the device as shown by the dotted line in the graphic below.

A DAB+/FM switch is needed for the parallel reception of DAB and FM signals through the tuner module's F socket. In this way, the two inputs, FM (87.5 - 108 MHz) and DAB+ (174 - 230 MHz), are combined onto a joint HF output, as shown by the solid line in the graphic below. **Revox offers an optimised FM/DAB switch under the order number 1.561.097.01.**



S208 Remote control

The optional S208 Remote control offers you the optimum way to control the Symphony. All information is displayed clearly on the TFT colour display, through the bi-directional wireless connection. Additionally, the control of third-party devices with an IR Code can be integrated through a database. The remote control is configured using the free-of-charge *S208 EasyCreator* PC software that can be downloaded from the Revox homepage.

Initial operation

The remote control battery should be charged up for at least 3 hours before you start to use it. Please refer to Page 16 of this User manual for information on how to do this.

The charger supplied with the remote control is used to charge the lithium ion battery in the S208.

The operation of the Symphony using the S208 Remote control is described in the next chapter. The setting options of the remote itself, such as the background colour of the display, are defined in the S208. On the other hand, the menus and setting options that affect the Symphony itself depend on the corresponding device. As a result, the description is split between the S208 and the Symphony.

ⓘ One S208 controls several receivers

Up to 24 Symphonys can be controlled with one S208 Remote control.
However, it can only communicate or have a wireless connection with one Symphony at a time. If a connection to a second Symphony is established (*Select device* hotkey), the connection to the first Symphony is automatically closed.

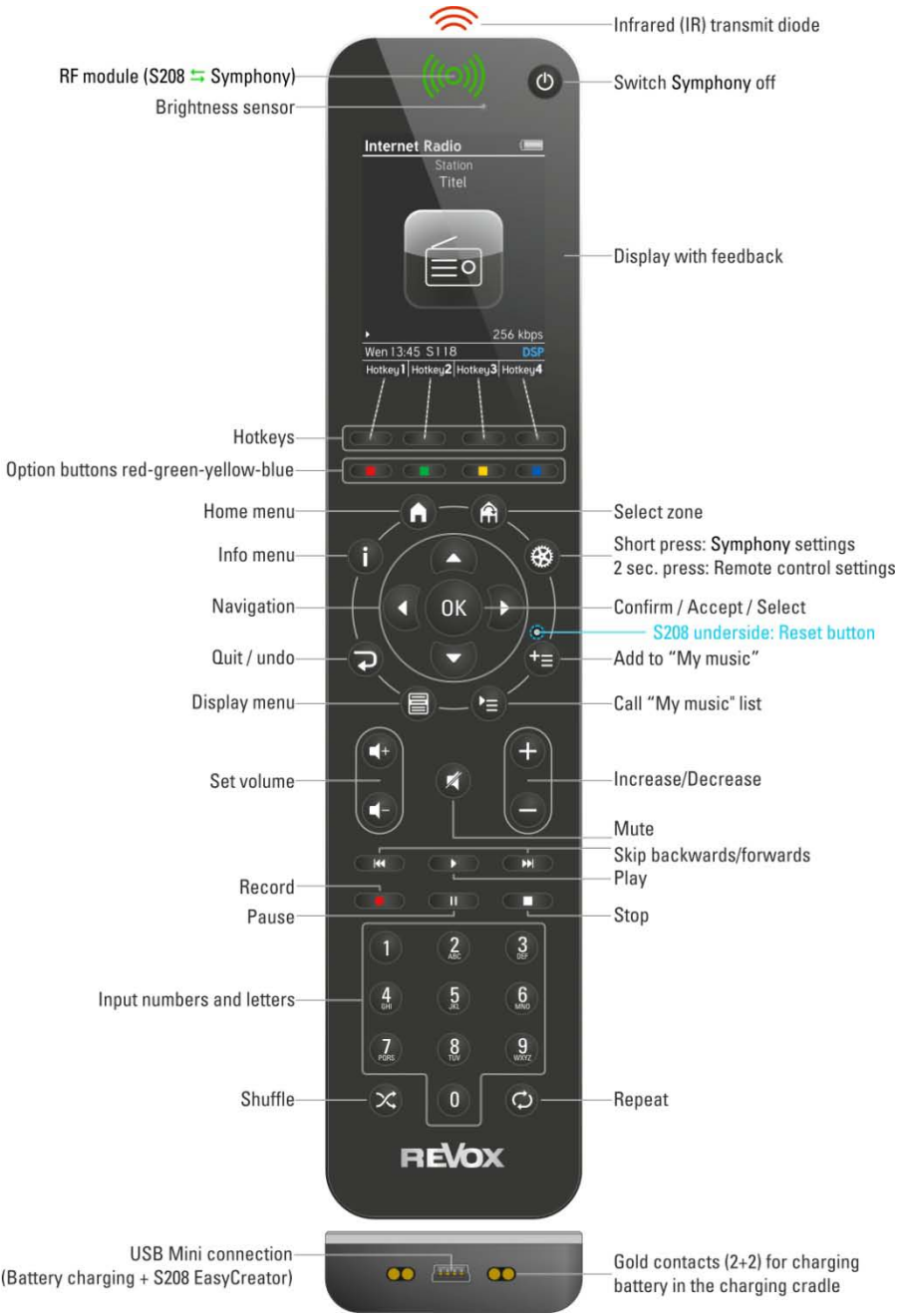
ⓘ Two S208s for one Symphony

If you are using several S208 remotes, it should be noted that one Symphony can only have a wireless connection to one remote controller at a time. If for example, there is already a connection to remote control **1** remote control **2** cannot establish a connection to the Symphony. Remote control **2** can only establish a connection once remote control **1** has ended the connection to the Symphony with the ⏻ button or has established a connection to another Symphony.

Lithium battery information

The remote control, with the battery in it, should not be exposed to sources of great heat such as the direct rays of the sun or to fire. Please also read the information concerning the disposal of this product in the Appendix at the end of this User manual.

S208 Overview



Explanation of the Remote control

Button	**Function with Symphony** (not IR operation)
	Switch Symphony off
	hotkey to switch between/switch on Symphonys and IR devices.
	Menu-dependant option buttons - (number input : lower/upper case)
	Main/ Home menu with source selection (radio, USB, local sources, etc...)
	Access to (basic) settings. **Short** press: Symphony settings (only if there is already a connection to the receiver) **Long** press: S208 settings
	Displays the information screen about the currently selected source
	Adds the track that is currently playing to the *My music* list
	Calls the *My music* list
	Quit menu / Up one level / Back
	Change zone. Displays all available zones
	Displays the source's Home menu, e.g. radio, music server, ...
	Confirm / Accept / Select
	Right-Left / Decrease-Increase / Delete-Cursor to the right
	Up-Down / Decrease-Increase
	Volume control. Volume level can be set from 0 to 40. Comfort start-up volume*
	Mute / Un-mute
	Decrease-Increase / Down-Up
	Stop
	Short: Track down-up / Down-Up *Long:* fast forward/ - backward
	Record [currently without function]
	Play
	Pause
	Digits 0-9 / Letters A-Z
	Start/end SHUFFLE
	Start/end REPEAT (track/all)

* If the volume is set to a level higher than [Vol 20] when it is switched off, a lower volume level [Vol 10] is used when the device is switched on again.

Charging the battery

The S208 remote control has a rechargeable lithium ion battery that can be charged using either the supplied charger or a mini-USB connection.

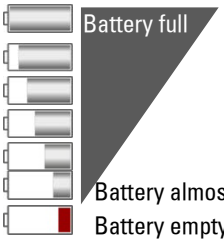
Use the charger with the supplied USB cable and the pluggable power supply. Insert the S208 vertically in the charger cradle (Step 1) and then let it slope backwards (step 2). This ensures that there is good contact between the 4 gold contact-connections on the charging cradle and the remote control.

Alternatively, the charger can also be connected to the Symphony's USB output if this is not needed for any other purpose. In this case, the pluggable power supply is not required.

Charging control / status display

Battery is being charged - do not interrupt the charging process

Battery is fully charged - charging process can be ended



The USB pluggable power supply consumes **no power** [0.0W] when the S208 Remote control is not in the charging cradle.

Connecting charger to the power supply

Battery care

Keep the number of charging cycles to a minimum

The working life of a lithium ion battery is largely determined by the number of times it is charged, irrespective of whether it is charged from 90% to 100% or from 10% to 100%. For this reason, it makes sense to charge the remote only once the charge-level display is showing [Almost empty] or [Empty]. This will lengthen the working life of the battery with the same number of charging cycles.

Store in a cool environment

If possible, don't place or keep the remote control in warm or hot locations, e.g. on a window sill or other places that get hot. At temperatures above 40°C, the rate of self-discharge increases and irreversibly shortens the overall working life and capacity. Particularly if the remote control is not going to be used for several weeks, it should be kept in a cool location with the battery at 50% to 80% charge.

Total discharge protection

The S208 remote control has a total discharge protection feature that switches the battery that provides its power off, as soon as this is completely discharged either through usage or through longterm storage. Once the S208 is in this state, it no longer reacts to button-presses. In this case, the remote control has to be completely recharged using the charger or the USB connection. This takes at least 3 hours.

Useful facts: Revox Joy radio system

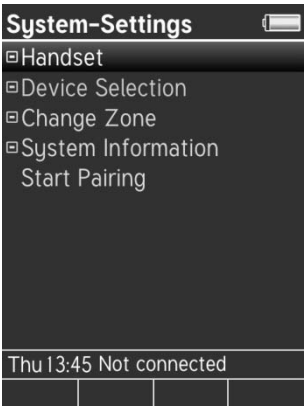
The transmitting power of the S208 remote control and the receiver unit in the Joy device is in the µW or mW range, depending on the data traffic. Is the S208 in standby mode, there is even no radio communications between the devices - no polling at short intervals.

The Symphony is in off-mode only in a receiving mode, which means that he "hears" only, whether data for him are sent. No active sending.

Conclusion: The Revox Symphony behaves exemplary in electric smog.

S208 Basic settings

The Basic settings for the S208 are called up by pressing and holding the button for > 2 seconds.



Then, you can select from the following basic settings:

- **Remote control**
- **Select device**
- **Change zone**
- **Information**
- **Start pairing**

You can make your inputs and selections in the individual menus using the navigation buttons, OK and the number pad.

◄ ► Decrease / Delete - Increase
▲ ▼ Up-Down
OK Confirm
0-9 Direct input of numbers/letters
Uppercase-Lowercase

Remote control

Name [Re:control S208]
Time: Hours (0-23) [13]
Time: Hours (0-59) [45]
Stand-by (0-300) [60]
Time in cradle [On]

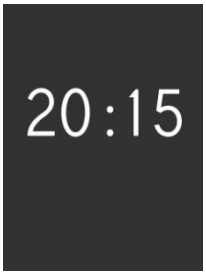
- **Weekday**
- **Brightness**
- **Background colour**
- **Hotkeys**
- **Change language**
- **Rename device**
- **Delete device**
- **Add zone**
- **Delete zone**
- **Transport lock**

Name [Re:control S208]
Editing options for the remote control's name, which is displayed in the *Home* menu.

Time: Hours (0-23) [13]
Time: Hours (0-59) [45]
Time setting in hours and minutes, in case there is no connection to the network through the receiver. Otherwise, the time is updated over the network (Internet).

Stand-by (0-300) [60]
Timeout in seconds until the remote control, not the receiver, switches to standby. A longer timeout shortens the battery life accordingly.

Time in cradle [On] / [Off]



The S208 Remote control can display the current time [On], when it is in the charging cradle in standby mode. The timeout until the time is shown, depends on the *Stand-by* (0 - 300s) setting. The power consumption while the time is being displayed and while trickle charging is happening (battery 100% charged), is 0,8W.
There is no time display if charging (fast / trickle charging) is done directly through the USB socket.

⊡ **Weekday**
Weekday selection, which appears as an abbreviation (Mo, Tu, We ...) in the status bar at the bottom of the display. This is also important for the receiver's alarm clock function.

⊡ **Brightness**
The TFT colour display can be operated at three different brightness settings, *low* / *medium* / *high*, as well as in *automatic* mode. In this case, the integrated brightness sensor (see S208 overview) measures the ambient brightness and adjusts the background lighting accordingly.
ⓘ The brighter the background lighting selection, the shorter the battery life.

⊡ **Background colour**
Five colours are available as background colour: *Dark grey / Walnut / Blue / Red / Moss green.* On the one hand, this gives you the option of choosing a colour that matches your personal preference but it also makes it easier to differentiate between them, if several remotes are being used.

⊡ **Hotkeys**
Four hotkeys are available per Zone/Room that can have Symphonys or IR devices assigned to them from the list of available devices. Symphonys are integrated into this list by being paired with the S208. IR devices are integrated through the S208 EasyCreator PC program. You can now assign these devices to the hotkeys in the corresponding zones through the hotkey menu. This function is also available in the *S208 EasyCreator* PC program.

⊡ **Change language**
Here, you can select the remote control's menu language. You can choose between: English, German, French, Italian, Spanish, Dutch.

Note
When changing the menu language **My Music** entries of Internet radio stations are no longer valid, since the Internet radio service for the new language has a new address. In this case the entries of **My Music** need to be created newly.

Other categories of **My Music**, such as USB or audio server, remain still valid when changing the menu language.

⊡ **Rename device**
This menu allows you to change the names of all devices that are currently available in the remote control. This function is also available in the *S208 EasyCreator* PC program.

⊡ **Delete device**
Devices can be deleted through this menu. Deleted IR devices can only be added back in again using *S208 EasyCreator*. Symphonys can be made available again through the remote control's pairing process.

⊡ **Add zone**
Zones can be added and named through this menu. In the simplest case, a Zone/Room consists of one Symphony or one IR device. Combinations are also possible of course. This function is also available in the *S208 EasyCreator* PC program.

⊡ **Rename zone**
This menu allows you to change the names of all zones that are currently available in the remote control. This function is also available in the *S208 EasyCreator* PC program.

⊡ **Delete zone**
Zones that have been created can be deleted through this menu. A deleted zone can be added back in again either through the *Add zone* option in the S208 menu or through *S208 EasyCreator*.

⊡ **Transport lock**
The motion detector is disabled when the transport lock option is activated, so that if you are transporting the S208 by car, for example, it won't remain permanently switched on and discharge the battery. The transport lock option is activated with the OK button. Pressing any other button deactivates the transport lock again.

Select device

You select a device that is available in the remote control and that you want to control, through this menu. All devices are listed here, irrespective of whether they are assigned to a zone or not. The devices can be Revox Joy Symphonys or third-party devices that are controlled by infrared (IR).
Symphonys are added to the device list through the pairing process.
IR devices are added to the device list through the *S208 EasyCreator* PC program.

Change zone

This menu enables you to change to or call up another zone. This function can also be called directly through the button.

Information

This menu gives you various details such as serial number, software states or the number of integrated devices.
The USB login is also done through this menu of the S208 is to be configured through the *S208 EasyCreator* PC program. For this purpose, a USB connection (USB Mini <-> USB B) is set up between the remote control and a PC running Windows. Then, the red button is pressed in the Information menu. This initiates the S208 connection. If connection is successful, "Connected" appears in the S208 display.

Start Pairing

Background information to pairing

A fixed communication must be created for the bidirectional wireless connection between the S208 remote control and the Symphony, in order that they can communicate securely with each other again after a restart or power outage. This is also necessary because there may be several Symphonys and remote controls in one system. The exchange of information for the purpose of uniquely identifying the devices is called Pairing. An S208 remote control can be deployed for the control of several Symphonys and as a result can also be paired with several Symphonys.

Pairing process

To prepare for the pairing of an S208 and and Symphony, switch the Symphony off by unplugging the plug from the mains and wait until the status LED on the front panel has gone out. If you now plug in the cable to the mains again, the LED flashes green ● for about 10 seconds. During this time, you have the chance to start the pairing process [Start Pairing], using the OK button. Once a Symphony is recognised, its name appears in the S208 display. Now the name and the preferred hotkeys can be selected. This completes the pairing process.

First contact

Various connections have to be made before setting up your Symphony for the first time.

Power cable

Only use the power cable supplied by Revox.
The Symphony has an adaptive power unit that is designed for mains voltages between 100 and 240 VAC (50-60 Hz).

Alternatively, the Symphony can also be operated with a DC power source (12 - 18 VDC, 3A) as is found, for example, in caravans, campers or boats.

LAN/WLAN network connection

The Symphony is designed for network-based functions, such as playing Internet radio or as a streaming client for your music library that is located on a network hard drive. The Symphony needs access to your network for these functions. This can be done preferably through a wired LAN connection, using the supplied RJ45 network cable or wirelessly through a WLAN (WLAN antenna suppied).

The reason for preferring a wired LAN connection to a WLAN connection is its reduced susceptibility to failures and the option of being able to transmit high-resolution audio formats (≥ 96 kHz) without any interruptions. If a LAN connection is used, the WLAN function is switched off. In this case, the supplied WLAN antenna is not needed. The wireless connection to the S208 remote control is done through the radio (RF) module integrated in the glass front panel, which is independent of the WLAN.

The first step - Establishing the connection to the network

Your network

The following description for the cabling and the setup of the Symphony makes the assumption that there is a functioning network with router available and that the network is operational.

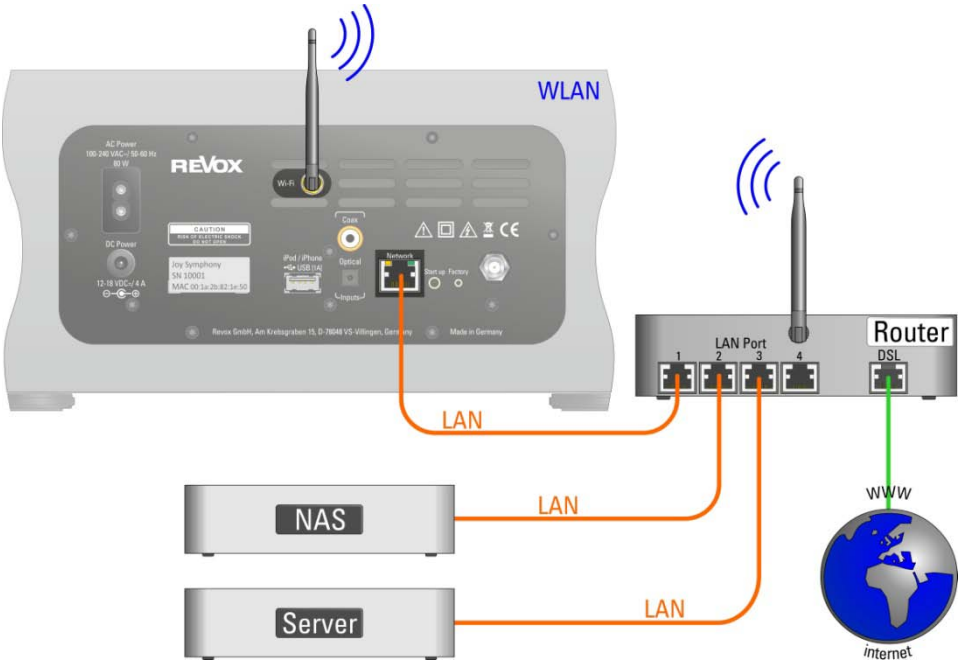
If you have any questions about the setup and configuration of your network or Internet access, please refer to your System administrator or an IT specialist of your choosing.

WLAN Wireless communication

An access point is required for the wireless communication between the Symphony and the router. This can be an external unit or it can be integrated in the WLAN router.

Internet Radio

If you want to use the Symphony to receive Internet radio, there must be a broadband Internet access to the router. Setting up the Internet access may involve further costs. The management and use of the Revox Internet Radio Portal is free-of-charge and already included in the purchase price.



The first step - Establishing the connection to the remote control using pairing

All the functions of the Symphony are controlled through the S208 remote control. Through the bi-directional wireless connection, the S208 can display content and operating state, keeping you up to date at all times.
Control is not just limited to one Symphony. Actually, up to 24 units can be controlled.

To make this possible, each Symphony has to be "introduced" to the remote control one time. This is called pairing.

The picture below shows the pairing process between the S208 and a Symphony. You will find an exact description of this process on the next page.

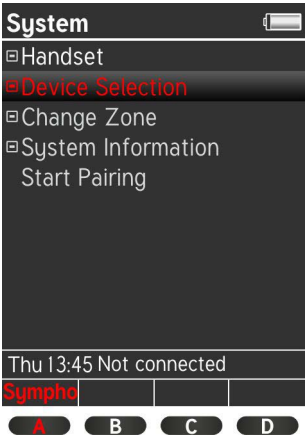
ⓘ The S208 remote control can only communicate or have a wireless connection with one Symphony at a time. If a connection to a second Symphony is established, the connection to the first Symphony is automatically closed.

The first step - Establishing the connection to the remote control

Once all connections are in place, the Symphony can be connected to the mains

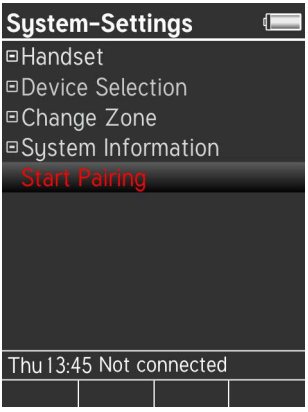
After switching on, the green ● status LED on the front panel flashes for about 10 seconds. Pairing between the Symphony and an S208 remote control can be carried out during this green phase. In the case of a combi-package consisting of Symphony and S208 remote control, Revox will already have carried out the pairing. You can switch the Symphony on directly by pressing the hotkey on the remote control with the name Symphony. In the example on the right, that would be hotkey A.

If the battery icon is already visible on the S208 or if there is no display at all, the battery needs to be charged - see Chapter *Charging the battery*.



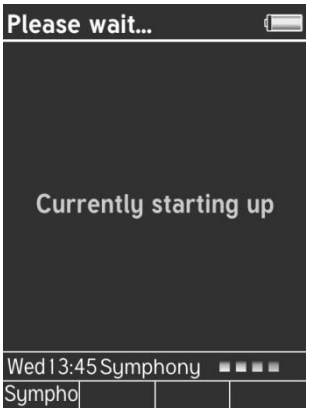
Carrying out a pairing with a new S208

With a new S208 Remote control without pairing, the pairing process is started by unplugging the Symphony from the power source and waiting until the status LED on the front panel has gone out. If you now connect the Symphony to the power again, the LED flashes green for about 10 seconds. You should confirm **Start pairing** by pressing th e OK button on the S208 during this green-LED phase. Now, the S208 tries to connect to the Symphony. If one is recognised, it transmits its name to the S208. This can now be edited and assigned at a later stage to a hotkey. This successfully completes the pairing process and the Symphony is automatically switched on.



First steps in the Main menu

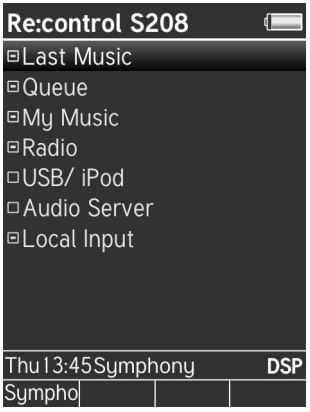
While the connection is being established to the network, "**Please wait... Currently starting up**" appears in the display. Then, the S208 **Home** menu, with the sources is displayed. Sources identified with a ⊡ are sources that are available or present. On the other hand, ☐ indicates that these sources are currently not yet available or cannot be reached. In the example on the right, there is a connection to (Internet) radio. A USB device (iOS products/USB memory) or a music server (NAS) on the other hand has not been identified or is not available.



Start screen

The local inputs are always available even if they are not being used or have not been assigned.

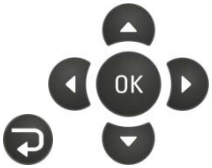
The first item, "Last listened to" stores the last 40 (each 10 Radio, USB, iPod, Audio Server) sources or paths to have been selected. These can be Internet radio stations or tracks from a USB mass storage. Local inputs are not taken into account. When the system is first setup, this folder is of course empty.



Home menu

This completes the first steps. In order to be able take full advantage of the quality and comfort functions of the Revox Symphony, we would invite you to get to know all the details and nuances through our User manual.

You can now make your choice at the remote control, through the four navigation buttons and the OK button.



Radio not available!?

If Internet radio is not available to you, it was probably not possible to establish an Internet connection. There can be several reasons for this.

- The network cable to the router is not plugged in or a crossover network cable has been used.

- As a factory setting, the Symphony is set to DHCP, which means that it gets its IP address automatically from the router. DHCP must therefore be possible and/or activated in the router settings. If this is not wanted, the Symphony can also be assigned a fixed IP address. See Chapter *Network settings*

- The firewall is blocking access.
  See Chapter *NETWORK QUESTIONS / TIPS*

- WLAN connection. The WLAN antenna at the Symphony / the WLAN router is not available. The WLAN function is deactivated at the router or the router is switched off.
  See Chapter *Network settings* and *WLAN status*.

  The main menu is called by pressing the ⌂ Home button on the S208.

You will find more information about setting up and operating the Symphony in the two main chapters "Settings" and "Operation".

Symphony - Basic settings

The **Basic settings** menu offers all those settings that are not needed every day, e.g. automatic switch-off, audio setup or renaming of the device.

The Symphony must have a wireless connection to the S208 in order for basic settings to be made and it must have been selected as a device, e.g. over the corresponding hotkey.

Now press the Setup button and select the option **Basic settings** in the **Device** menu. Confirming your choice with the **OK** button opens the Basic settings menu.

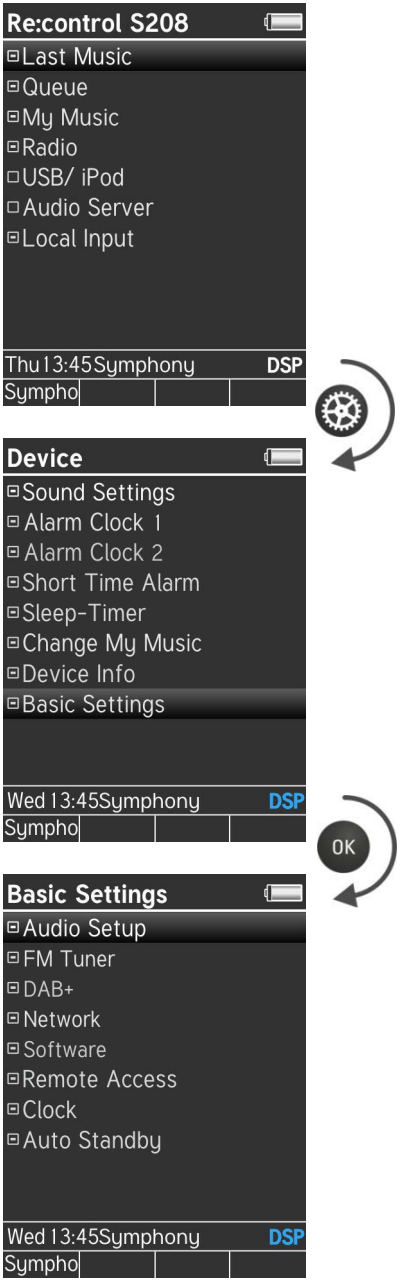
Then, you can select from the following basic settings:

- **Audio Setup**
- **FM Tuner ***
- **DAB+ ***
- **Network**
- **Software**
- **Remote Access**
- **Clock**
- **Auto Standby**

You can make your inputs and selections in the individual menus using the navigation buttons, OK and the number pad.

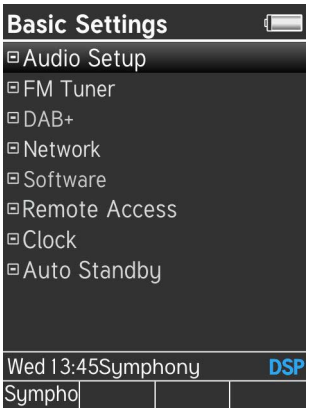
◄ ► Decrease / Delete - Increase
▲ ▼ Up-Down
OK Confirm
0-9 Direct input of numbers/letters
Uppercase-Lowercase (blue)

* only availabe, if the optional DAB+/ FM tuner module is installed



Audio Setup

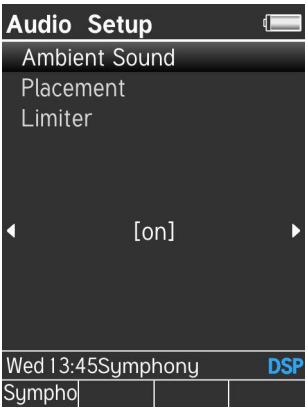
You can make the basic settings in the Audio Setup menu, in order to adjust your Symphony optimally to your positioning environment and your listening habits.



Amient sound

As well as the linear stereo reproduction, the Symphony also offers an ambient sound option that delivers a 3-D listening experience, with a virtually larger stereo bandwidth.

This can be activated through the **Ambient sound** setting [on]. An active spatial sound mode is indicated in the display by the colour change of the DSP icon to DSP.



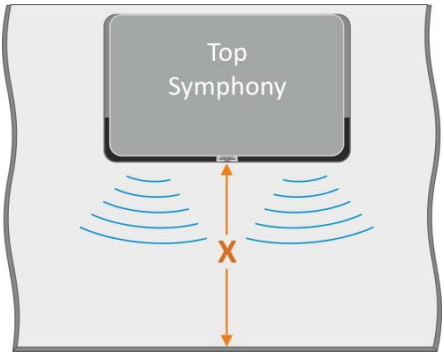
ⓘ When the unit is delivered, the ambient sound option is switched off.

DSP: **D**igitaler **S**ignal **P**rocessor

Placement

Placing the Symphony on a table or similar large surface leads to an unnatural exaggeration in the fundamental tone range. The crucial factor that leads to this phenomenon is the surface **in front** of the Symphony, that is to say the distance X between the front operating panel and the edge of the table. If the distance X is greater than 30 cm/ 12 in., we recommend using the [Table] setting, which carries out a corresponding correction using the digital signal processor (DSP).

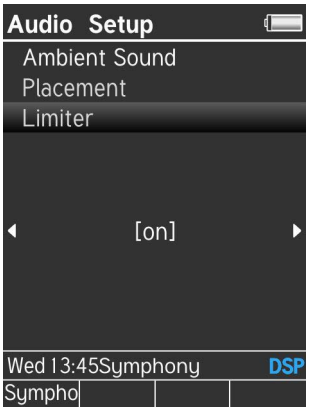
If the distance is under 30 cm/ 12 in., the setting [Free] is the better choice as a rule.



ⓘ [Free] is the factory setting.

Limiter

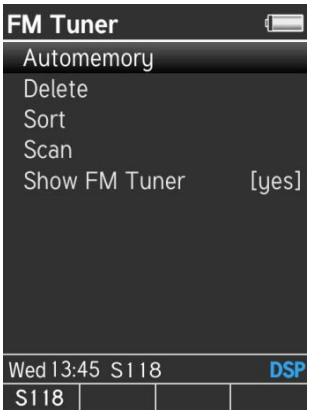
If the limiter is activated, the output signal is limited in order to keep distortions as low as possible. The maximum volume level that can be achieved is therefore somewhat lower with an active limiter than without.



ⓘ The Limiter is active when the unit is delivered.

FM Tuner

If the optional DAB+/FM Tuner module is installed, this menu can be used for searching for, sorting or deleting tuner stations. It is a module with an RDS tuner that has been optimised for cable reception.

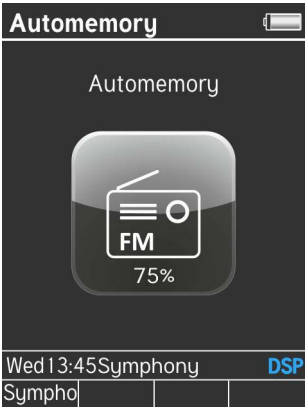


The tuner signal can either be received through a roof-mounted antenna with antenna-amplifier or over the cable network. We do not recommend using an indoor antenna.

ⓘ FM = **F**requency **M**odulated (VHF)

Automemory

The **Automemory** function searches for all receivable stations and then stores them in ascending order of their frequency. **Automemory** has been developed especially for cable reception as this offers many stations with optimum transmission performance. A maximum of 100 stations can be stored.

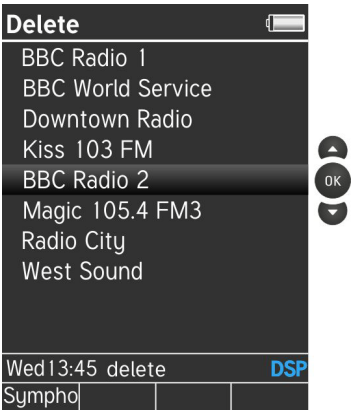


Carrying out an automatic station search deletes all previously stored stations. The system advises you of this fact before starting Automemory, in order to avoid accidental deletions.
A percentage progress display in the Tuner icon shows you how much of the station search has been completed.
The automatic station search cannot be interrupted.

Delete

The station list is displayed after calling the "Delete" option. The stations to be deleted can be selected with the "Up" and "Down" buttons. "OK" then deletes the stations without any further confirmation dialogue. The text "delete" is shown in the Info bar while the deletion process is running.

The "Back" button ends the deletion process and returns you to the FM Setup.



Sort

Stations can be sorted in the Station list. The corresponding stations are selected with the "Up" and "Down" buttons and highlighted with "OK". During the selection phase, **"from ..."** is displayed in the Info bar, which changes to **"to ..."** after highlighting.

The selection bar is now moved to the required position in the list with the "Up" and "Down" buttons. The new station position is confirmed with "OK". The status display in the Info bar now returns to "from ...".

The "Back" button ends the sorting process and returns you to the FM Setup.

Scan

The **Scan** selection opens an Info menu and the scan process starts with the ◂ / ▸ button at the lower frequency range. "Station search..." appears in the Display field during the search process.

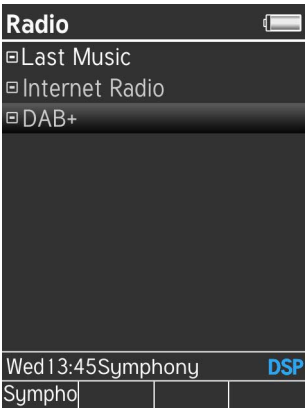
Depending on the scan direction, the status display shows either "**Scan >**" or "**<Scan**". When the first station is found, the scan process stops and the station is displayed and played. The station can now be added to the Station list with "OK" or the scan process can be restarted with the ◂ / ▸ button. The new station is added to the end of the Station list. The message "Station added" appears as a confirmation in the Display field for 2 seconds.

The "Back" button ↩ ends the deletion process and returns you to the FM Setup.
A maximum of 100 FM stations can be stored.

Display FM tuner [ ]

The broadcasting sector changes and with it, our preferences change. If you don't want to or can't use the FM tuner, it is possible to hide it in the radio selection in the Main menu. Depending on your selection, the Setup menu shows [yes] or [no].

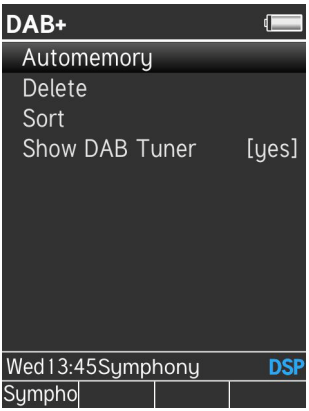
The FM tuner entry in the Basic settings is of course retained, irrespective of this setting.



Radio selection menu with FM tuner hidden

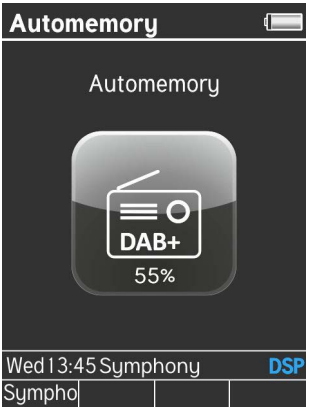
DAB+

If the optional DAB+/FM Tuner module is installed, this menu can be used for searching for, sorting or deleting DAB+ stations.



Automemory

The **Automemory** function searches for all receivable stations and then stores them in ascending order of their frequency. A maximum of 100 stations can be stored.



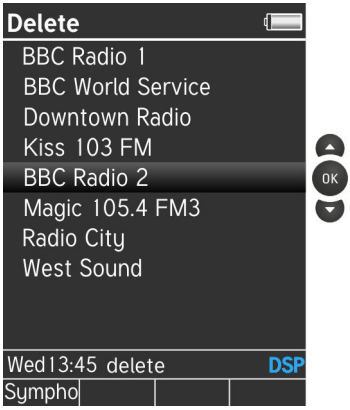
Carrying out an automatic station search deletes all previously stored stations. The system advises you of this fact before starting Automemory, in order to avoid accidental deletions.

A percentage progress display in the Tuner icon shows you how much of the station search has been completed. The automatic station search cannot be interrupted.

Delete

The station list is displayed after calling the "Delete" option. The stations to be deleted can be selected with the "Up" and "Down" buttons. "OK" then deletes the stations without any further confirmation dialogue. The text "delete" is shown in the Info bar while the deletion process is running.

The "Back" button ends the deletion process and returns you to the FM Setup.



Sort

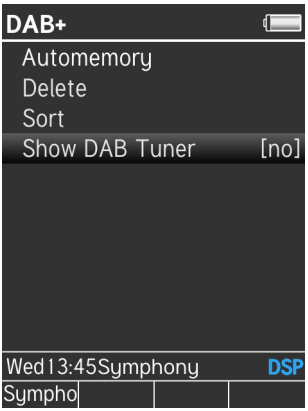
Stations can be sorted in the Station list. The corresponding stations are selected with the "Up" and "Down" buttons and highlighted with "OK". During the selection phase, **"from ..."** is displayed in the Info bar, which changes to **"to ..."** after highlighting.

The selection bar is now moved to the required position in the list with the "Up" and "Down" buttons. The new station position is confirmed with "OK". The status display in the Info bar now returns to "from ...".

The "Back" button ends the sorting process and returns you to the FM Setup.

Display DAB+ tuner [ ]

The broadcasting sector changes and with it, our preferences change. If you don't want to or can't use the DAB+ tuner, it is possible to hide it in the radio selection in the Main menu. Depending on your selection, the Setup menu shows [yes] or [no].



The DAB+ tuner entry in the Basic settings is of course retained, irrespective of this setting.

Radio selection menu with DAB+ tuner hidden

Network

All the relevant settings for the network communication are defined/ displayed in this menu.

Network Status
Status display of:

- Connection
- IP Address
- Subnet mask
- Gateway IP

Network name-ID
As the factory-setting, each Revox Symphony identifies itself inside a network as Symphony. If you are deploying several Symphonys however, it can be beneficial to be able to assign them different names.

The network name can be edited through the **Network name-ID** menu, using the following button functions:

◂ Delete
▸ Cursor to the right
OK Confirm
0-9 Direct input of numbers/letters
0, 1 Special characters
Uppercase-Lowercase (blue)

This function should not be confused with "Rename device", in which the Symphony (hardware) can be fitted with a new name – see also page 18.

WLAN status
(deactivated if LAN used)
Status display of:

- WiFi Signal
- WiFi Channel
- Encryption

IP Settings

Here you can choose whether you want to assign a fixed IP address or whether the Symphony will obtain an automatic IP address from the router using DHCP. Factory setting is DHCP.

Selection options:

- Automatic (DHCP)
- Manual input

In the case of a manual input, you can make the following settings:

- IP Address
- Subnet mask
- Gateway IP
- DNS Server 1
- DNS Server 2

Pressing the **OK** button moves you from one input field to the next. After the DNS Server 2 input has been made, the data is applied and the system attempts to establish a connection.

WLAN Settings

Here, you can make the settings for a WLAN connection. If there is no LAN connection, any wireless networks that are found, are displayed in a list. Select the WLAN network you want to use and allow the system to guide you through the connection menu.
If there is already a LAN connection, you can enter the network name (SSID) and establish a connection by inputting the password, the encryption type and the DHCP definitions.

Network Restart

Carry out a restart after modifying the network settings (IP/ WLAN) or when swapping the LAN/WLAN network.

MAC Address

Display of the MAC address that has been uniquely assigned to this Symphony.

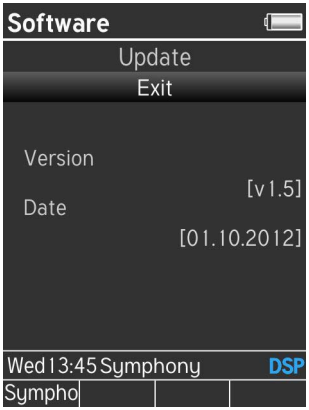
Quick start function

If the Quickstart function is activated [on], the network processor is switched on permanently. This significantly reduces the switch-on phase, as the connection to the network doesn't have to be built up again. All other sub-assemblies, such as the audio signal processing or the outputs, including the main transformer are switched off, as with normal standby mode.
Quickstart mode [on] is also a requirement, in order to be able to control the receiver with a network-based Revox App **S232**(Apple)/ **S235** (Andoid).

Standby consumption goes up < 0,6 watts to 4,5 watts, if the Quickstart function is activated.

Software

This menu displays the status of the software version with date and enables an update to be carried out.



If you want to update your Symphony software, select **Update** and confirm your intention with the **OK** button. The following menu appears:

Here, you now have the option of selecting whether the update should be done over the Internet or using a USB stick.

Do not execute any actions at the Symphony while an update is running.

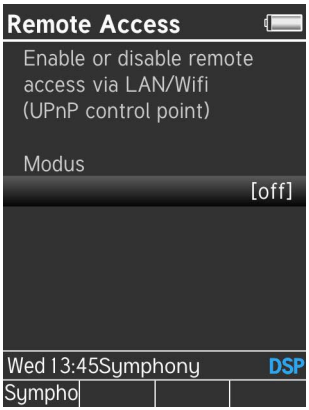
Internet
This is a quick and easy option for carrying out an update. Start the update with the OK button.

USB
[with FAT/ FAT32 formatting]
Download the bin file from the Revox Homepage and save it to the root folder of your USB stick. Do not put the bin file in a sub-folder. Plug the USB stick into the USB socket on the back of the Symphony and start the update with the OK button.
NTFS-formatted USB sticks **are not** recognised by the Symphony.

The progress of the update is visible on the S208 display while the update is running. Additionally the status LED is flashing green. Wait until the update is completed.

Remote access

If Remote access is activated, UPnP commands from UPnP Control points are accepted. This means that the Symphony can be externally controlled through the network (LAN/WLAN), e.g. by UPnP-based apps like the *Plug Player*.
If Remote access is deactivated, the Symphony can only be controlled through the S208 remote control respectively the Revox Apps S232/ S235.



Clock

Normally, the Symphony gets its time setting from the Internet. In order that it can display the right time for your location, with or without daylight saving, based on the Universal Coordinated Time (UTC), it needs the offset from UTC and the definition of whether daylight saving is currently active or not.

Example offsets from UTC:
0:00 England, Ireland, Portugal
1:00 Germany, Switzerland, Austria, Sweden, Norway, France, Spain, Italy, The Netherlands, Belgium
2:00 Finland

ⓘ
This menu should not be confused with the Time menu for the S208 remote control on Page 18, which only runs there in the background as a backup security system in the event of a power outage, etc.

Auto Standby

The automatic standby function can be activated through this menu. In this way, the Symphony is automatically switched to standby mode if the network connection is interrupted for more than 5 minutes or the playback from USB/iPod media is ended. The same applies for the Music server as well.

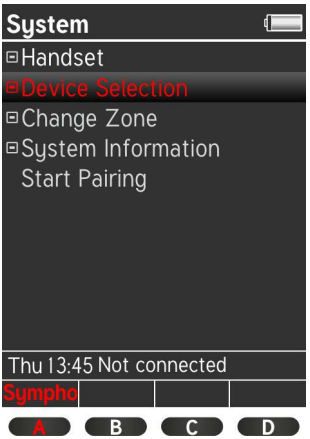
Automatic switch off has no effect on the following sources:

- Coax
- Optical
- Radio

Operation - Start-up process

Once all the basic settings for the S208 remote control and the Symphony have been made, you can start with the actual operation.

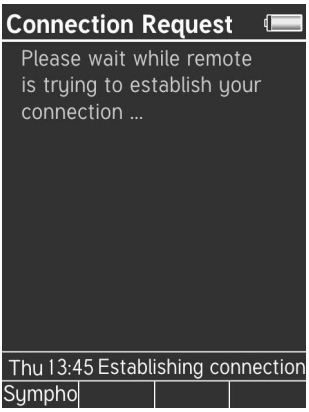
Switch the Symphony on directly by pressing the hotkey on the remote control with the name Symphony. In the example on the right, that would be hotkey **A**. Alternatively, if no hotkey is assigned, the Symphony can also be started with the button combination (**System**)↳ **Device Selection** [Figure 1]



[Figure 1]

Several Symphony present
If you are deploying several Symphonys, it makes sense to give them different names, so that they can be uniquely identified in the device list or through the hotkey assignment when calling or starting them.

Now the S208 remote control initiates a connection query to the corresponding Symphony. [Figure 2]


Connection Request
Please wait while remote is trying to establish your connection ...
Thu 13:45 Establishing connection
Sympho

[Figure 2]

Once a connection to the Symphony could be established, but the network connection is not yet completed, the S208 remote control shows: [Figure 3]

The Symphony always starts up with the source that had been selected before it was last switched off.

[Figure 3]

The configuration options

Essentially, the following relationships exist between multiple S208 remote controls and Symphonys:

One S208 can control a maximum of 24 different devices. These devices can be Symphony, S118, S119, S120 or Infrared-controlled third-party devices - see Page 21 "Select device".

One Symphony can be paired with and controlled by up to six S208 remote controls - see Page 24 / 25. If the pairing process for a seventh remote control is carried out, the pairing identifier for the first remote control is deleted.

Up to eight zones can be created. The creation and renaming of zones can be done directly at the S208 remote control or by using the *S208 EasyCreator* PC program.

Up to four four hotkeys can have devices (Symphonys or IR devices) assigned in each zone.

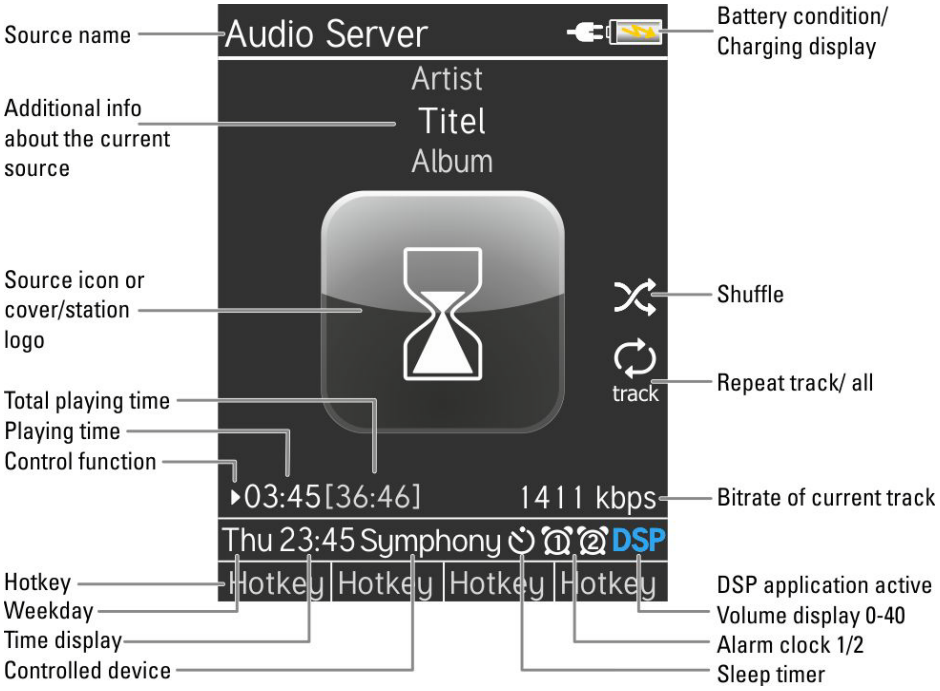
ⓘ Zone
Usually, one zone covers one room to which several devices (Symphonys + IR devices) are assigned. This can, for example, be a Symphony that plays the sound from a connected television. Both devices (Symphony + TV) would be assigned to the "Living room" zone.
IR devices can only be added and assigned to a zone using the *S208 EasyCreator* PC program.

Operation via S208

All the functions and information from the selected Symphony are shown on the S208 remote control colour display. The picture below shows a basic view where a source has been selected and playback has started. This of course can vary from one source to another. As well as the status display for source name, battery, playback function and various alarm clock services, in the centre of the display you have information about the source that is currently playing.

The next pages give you information about the individual sources and the additional functions.

The functions and content are displayed specifically for the selected Symphony [see picture below: *Controlled device*]. If no device is active/ selected the S208 remote control just shows its own **System** menu.



Main menu

The main menu is called with the button on the remote control and displays the source overview and the "Last listened to":

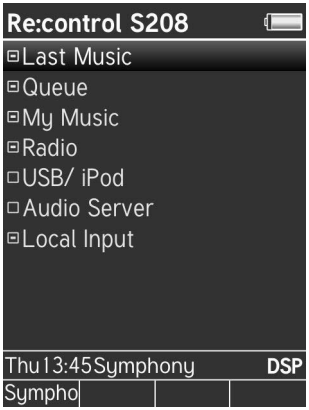
- Last Music
- Queue
- My music
- Radio
- USB/ iPod
- Audio Server
- Local input

Sources identified with a ⊟ are sources that are available or present. On the other hand, ☐ indicates that these sources are currently not yet available or cannot be reached.

The local inputs are always available even if they are not being used or have not been assigned.

ⓘ ABC search

The alphabetic search function is available in all menus that have alphabetic lists. These can be for example, Internet radio station lists or an album list in a USB folder. To start the ABC search, just press the required letter or number using the number pad, while in the list view. The selected letter is shown at the start of the list. After a short waiting time, dependent on the number of list entries, the S208 shows the search results.



▪ Last Music

The first item, "Last Music" stores the last 40 sources or paths to have been selected. 10 entries are reserved for each of Radio, USB and Music server. iPod and the local inputs are not taken into account.

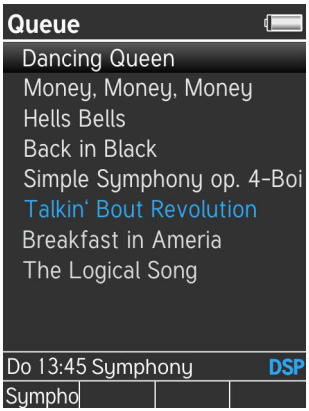
As some sources may no longer be available because, for example, the USB stick was unplugged, it can happen that the path is no longer valid / no longer exists. This is shown in the display with the message "**Can't play music. Press "OK"**".

When the system is first setup, this folder is of course empty.

▪ Queue

The Queue represents a playlist that can be put together quickly and easily using the remote control or the Joy App. Similar to normal playlists, tracks are selected from the Music Server or USB area and added to the list. The list is stored directly in the Joy Symphony and can contain up to 250 tracks. With the S232/S235 Joy Apps, it is even possible to create and manage several Queues.

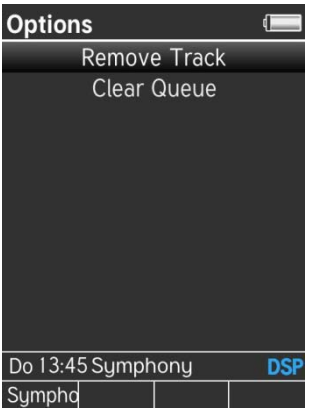
You can call the previously created playlist through the **Queue** option in the Main menu. Select the track where playback should start from. Start the Queue playback with the **OK** button. Playback is only interrupted if another source is selected or when the last track in the Queue finishes. The track that is currently being played is shown in blue.



ⓘ Queue
Also known as PlayQueue

Managing the Queue

The opened Queue list can be managed through the Menu button.



The following options are available:

Remove Track

Removes the last track to have been selected from the Queue. If this happens to be the track that is currently playing (marked in blue), playback continues automatically with the next entry in the list.

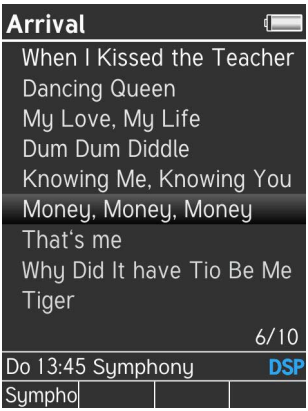
Clear Queue

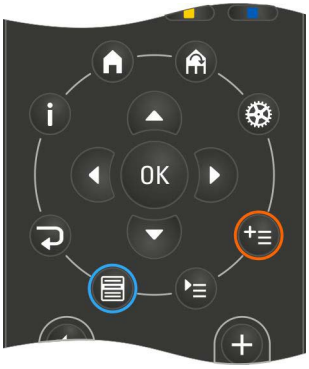
All tracks are removed from the Queue. This is done without any further confirmation being required.

ⓘ *Import/export Queue*
Using the S232/S235 Revox Apps, a Queue can be transferred from one Joy Symphony to another Joy Symphony. A pre-requirement for this is that all tracks in the Queue can be reached from both receivers, i.e. all tracks must originate from a common NAS, for example. Local tracks from a USB stick do not fulfil this requirement.

Creating a Queue

Navigate to the track selection (list) in the **Music Server** or **USB** source where the desired track is located. In the example below, this is the ABBA album "Arrival" with the selected track "Money, Money, Money".

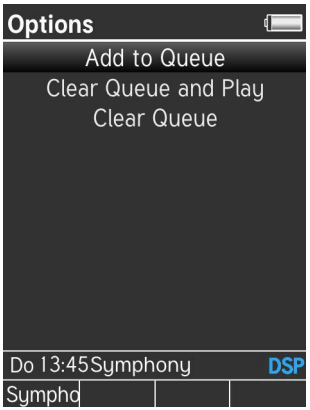




Using the **Add to queue** button, the selected track is added to the end of the Queue.

There are more options in the **Source menu** that you can get to through the button.

These are:



Add to Queue

Adds the selected track to the end of the Queue. A Queue list sort order can only be changed using the Revox S232/S235 Apps.

Clear Queue and Play

Remove all previous tracks from the Queue* and add the selected track as the first entry and play it.

Clear Queue

All tracks are removed from the Queue*.

* This is done without any further confirmation being required.

▪ My Music

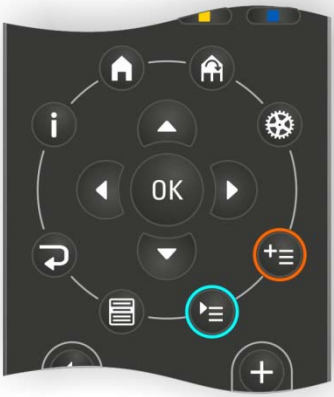
The **My Music** selection covers all your favourite stations or tracks that you have added through the button [Add to My music]. These can be stations or podcasts from the Internet radio or they can be tracks and playlists from a USB stick or a network drive. iPod tracks cannot be stored in **MyMusic**.

My Music can also be called directly through the button [Call My music list] on the S208 remote control. There can be a maximum of 18 entries.

When changing the menu language (page 20) or as some sources may no longer be available because, for example, the USB stick was unplugged, the entry/path is no longer valid / does no longer exist. This is shown in the display with the message "**Can't play music. Press "OK"**".

When the system is first setup, this folder is of course empty.

You can rename or also delete the existing *My Music* entries through the **Change My Music** menu item. To do this, press briefly on the button and select this menu item. [Figure 1]
The name of the entry can be changed through corresponding item in the following menu [Figure 2]. You can also delete individual or all entries. You will find an exact description of this on Page 62.



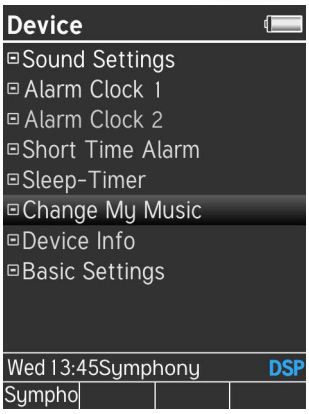


Figure 1

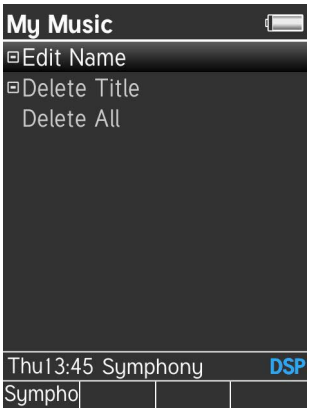


Figure 2

▪ My Music – iRadio

Shortening access times

When you store stations or podcasts through the Internet radio option into the **My Music** folder, a list path is created in the background.

If a **My Music** entry is now called, the receiver uses this list path as the route to find the corresponding radio station.
The more sub-folders there are in the list, the more time the receiver needs to find the entry again.
It makes sense then to select the shortest list path when adding a **My Music** entry for radio stations or podcasts that you call up on a daily basis.
As a rule this is a call that is made through the Favourites list that you create in the (*Online Services)* option in the Revox Internet Audio Portal (see Page 65).
Path: Internet Radio > Favourites > Favourites Group
A good alternative without the Internet Portal is:
Path: Internet Radio > Device Location [Country] > Genre

The longest access times result from using the following selection to search for the station:
Path: Internet Radio > Countries > Continent > Country > All Stations

By employing a more elegant call-up strategy, you can achieve access times that are 5-times faster.

Change menu language

When changing the menu language of the remote control and thus also in the receiver, **My Music** entries of Internet radio stations are no longer valid, since the Internet radio service for the new language has a new address. In this case the entries of **My Music** need to be created newly.

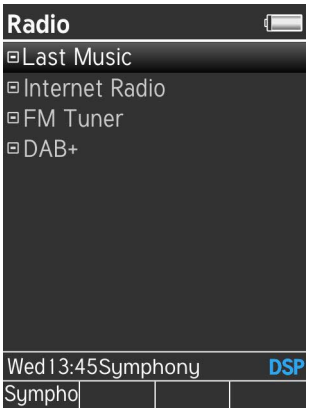
Other categories of **My Music**, such as USB or audio server, remain still valid when changing the menu language.

▪ Radio

Selecting **Radio** gives you two options to choose from:

- Last Music
- Internet radio
- FM Tuner[1]
- DAB+ [1]

[1] The DAB+ and FM Tuner selection is only available if the optional Tuner module is installed. A DAB+/FM Tuner module can be retrofitted as an option to all Joy streaming devices.



➲ Last Music

The "Last Music" selection saves the last 10 Internet radio stations / podcasts to have been selected. It can occur that a station or a podcast transmission is no longer available or has been removed from the programme. This is then shown in the display with the message "**Can't play music. Press "OK"**". When the system is first setup, this folder is of course empty.

• Internet Radio

The selection **Internet Radio** gives you access to thousands of radio stations available from around the world. As well as the linguistic diversity available, you can also make specific selection based on particular musical directions (Genres). **Podcasts** offer even more individuality. Podcasts are broadcasts such as news programmes, magazine shows, crime dramas, comedies, etc. that are started when you select them. You don't switch onto a program that is currently running as is usual when listening to (Internet) radio. You actively start the playback of a program.

Currently, the following selection options are available under the Internet radio section:

The selection options in the Internet radio menu are constantly being adapted to meet customer requirements. It can occur therefore, that new or modified selection options are added.

At the time of printing this manual, the following selection criteria were available:

- Favourites
- Added Stations
- Device location (country)
- Location
- Genres
- Podcasts By Location
- Podcasts By Genre
- New Stations
- Most Popular Stations

➲ Favourites
Under *Favourites* you will find a list of your preferred radio stations and/or groupings, which you had previously organised through the *Revox Internet Audio Portal* (see Chapter ***IAP***). How to do this and what you have to take into account is described in the Chapter *Setting up Internet Radio* on page 65.

➲ Added Stations
The *Added Stations* selection lists those radio stations that you added yourself in the *Revox Internet Audio Portal* (see Chapter ***IAP***, page 58), as these are not listed by default. You need the URL, the Internet path, of the operator of the radio station to be able to add a new Internet radio station in the IAP. You will usually find this on the provider's homepage or you can display them in a media player, e.g. *RealPlayer*.
Example of an URL:
http://213.251.170.124:80

➲ Device location (country)
Your Symphony knows which country it is in through its IP address. Using this information, it offers the user direct access to the selection of national radio stations. This shortens the time needed to make your selection as you don't have to go through the continent and country selections first.
Correspondingly, a Symphony that is located in London (UK), will show **United Kingdom** here.

➲ Locations
Selection of radio station by countries. Searching for the required radio stations is made quick and specific through the classification into Continents ↘ Countries.

➲ Genre
Listing of radio stations based on certain music genres, such as rock, jazz, folk, etc. Within the genre, the individual radio stations are either listed alphabetically (*All Stations*) or by the countries offering this type of music.

➲ Podcasts By Location
Listing of podcast transmissions based on the country/continent where the provider is located.

➲ Podcasts By Genre
Listing of podcast transmission based on the genre these transmissions are assigned to.

➲ New Stations
New radio stations are being added somewhere in the world every day. As you won't want to go to the effort of searching for new radio station arrivals every day yourself, these are listed in the selection *New Stations*.

➲ Most Popular Stations
Listing of the Internet radio stations that are currently being most listened to.

Internet radio display

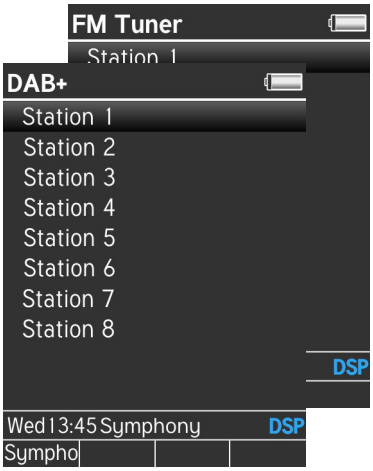
Track and radio station are displayed when playing Internet radio. In the case of a podcast, the corresponding programme name is shown. If the station doesn't have its own station logo, the SYMPHONY shows a default logo (130 x 130 pixels).

If the station does have its own station logo, the Symphony shows the egg-timer icon until the logo is fully available. (130 x 130 pixel).

Once the station logo has been transmitted in it entirety, it is shown in a larger resolution of up to 150 x 150 pixels. The example shown here is the AVRO station from the Netherlands, which is known for its high quality broadcasting.

▪ DAB+ / FM Tuner

If the Symphony is equipped with a DAB+/FM Tuner[1] module, the DAB+ or FM Tuner selection appears.

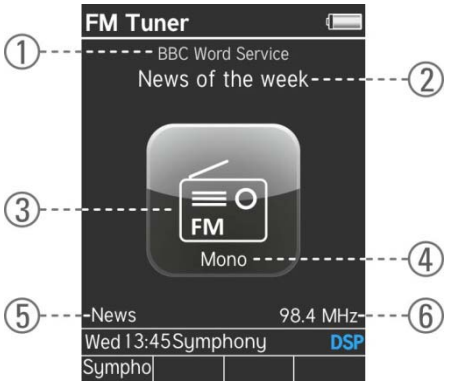


After the initial set-up, no stations are stored and the Station list is empty. Please refer to the Basic Settings on pages 30 - 34 for information on searching for and organising DAB+ and FM stations.

After the stations have been organised in the Basic settings and are in the Stations list, the desired station can be selected using the ▲▼ button (Select bar). You confirm your choice with the OK button and the Status menu appears with the Detail information about the selected station.

[1] optional special equipment

FM Tuner/ DAB+ Status menu



Status info with RDS FM Tuner

① Station name (PS= Programme Service Name)
② Radio text, programme information (RT = Radio Text)
③ FM Logo
④ Mono/stereo switching with Shuffle button
⑤ PTY = Programme Type
⑥ Additional station information (station frequency, signal strength) (selection through ▸ button)

Status info with DAB+

① Station name (SL= Station Label)
② Programme information (DLS = Dynamic Label Segment)
③ DAB+ Logo
④ Mono/stereo display
⑤ PTY = Programme Type
⑥ Additional station information (station frequency, signal strength) (selection through ▸ button)

▪ USB/ iPod©

The **USB/iPod** selection menu enables access to devices/content connected to the Symphony's USB input. That can be either an iPod or iPhone from the Apple© Company or a USB storage.
Recommendation: USB memory stick up to 32 GB

USB

USB storage with FAT/ FAT32 formating.
Here, all tracks and music folders from the USB storage medium are displayed. You can make your choice using the navigation buttons. NTFS- or MAC-formatted USB sticks **are not** recognised by the Symphony.
Cover display (tagged) is supported with the **USB** selection. You can find out what pre-requirements are necessary for this on page 55.

iPod©

Connect the Apple product (see next page for Apple product list) with the Symphony using a USB cable as shown in the figure below. You should use the original Apple USB cable for this purpose. In addition, Revox offers an iPod Docking station (30-pole) in the same design as the S208 charging cradle (Part no. 1.561.096.00).
After a short time for the connection to be established, the USB/iPod selection can be made. The message "Accessory connected" appears in the display of the Apple product.

Note Battery charging

The battery of your connected iPod or iPhone will be charged by the Symphony only in **Quick start mode** enabled. Maximum charging current 1,0 A. The power consumption of the Symphony increases accordingly during the charging process.

Cnnection to Apple device

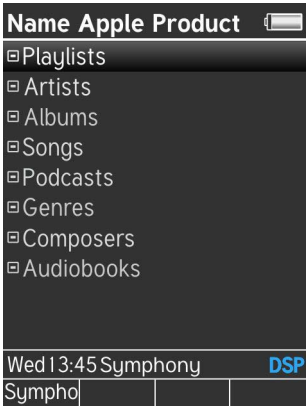
iPod selection©

At the time of printing this manual, the following selection criteria were available with Apple products:

- Playlists
- Artists
- Albums
- Songs
- Podcast
- Genres
- Composers
- Audiobooks

Use the navigation buttons to make your choice. You can choose the shuffle or repeat options at the playback level.

Cover display is not an option in the **iPod** selection. For this reason, the standard cover is displayed.



The selection displayed only reflects the Apple software options that were available for a particular iPod model at the time of printing. This can however vary, depending on the model and software version.

▪ Music server

The Revox Symphony creates order in your beloved CD collection. Just pack all the tracks that make up your CD collection onto a NAS drive in the highest quality and then browse through them at your leisure, looking for long-lost tracks or rediscovering some old favourites. No more looking for CDs that have been put back into the wrong box!

Network servers that support the UPnP-AV standard can be accessed through the network (LAN or WLAN). The most usual instance of such a server is a NAS hard disc. The name of a media server is defined at the server itself.
It is however possible to use a normal PC as a network server. This however requires an UPnP-AV software so that the Symphony can find and play stored music files. Such a software is offered, for example, by the company *Twonky Vision* with the software *TwonkyMusic*. The display of the selection menu of such an UPnP-AV server can vary greatly.

Music server display

The S208 remote control has an adaptive cover display in the Music server menu field. If no cover is available for the selected track, a standard 130 x 130 pixel icon is displayed:

If a cover does exist however, this shown in a higher resolution of 176 x 176 pixels.

As well as showing the current playing time ▸ 03:45, the total playing time [66:46] is shown under the cover. The control functions are described on the next page.

Important: Music folder name

The Symphony can only find your music tracks on the media server if they are located in a folder called **Music**. Other folder names are not recognised. This folder can be shown with a different name than "Music" in the Symphony display. This depends greatly on the settings and on the various models of this media server.

Control functions
for USB/iPod/Music server

Play

Pause

Stop

Track forwards/back
Fast forward/ - backward

Skip forwards/back

Shuffle

Track shuffle. Depending on which selection criterion you activated the Shuffle function at, either only the tracks within an album (*Albums*) or all the tracks in the music folder are played in a random order.

Repeat function - Track

With the **track** repeat function, individual tracks can be repeated.

Repeat function - All

With the **all** repeat function, complete folders (albums, songs, etc.) can be repeated.

Cover display

The Symphony supports cover display with the iRadio, USB and Music server selections. In the case of iRadio, the station logo from the broadcasting organisation is sent automatically.

With the USB and Music server selection, there can be a cover display if one of the following conditions is met:

- The track contains the cover image as a jpg or a bmp file. PNG files cannot be displayed. Inserting or tagging a cover in a music track can be done for example, using the *Mp3tag* software.
- ! Only Music Server: The album folder contains the cover image in the file *cover.jpg*. Make sure that lowercase lettering and the correct file format are used.

ⓘ Cover

Whether a cover can be displayed and in what quality, depends on the UPnP server software. A resolution of 500 x 500 pixels has proved to be favourable in terms of transmission speed and display quality.

▪ Local inputs

The Symphony offers 2 digital inputs.

- Coax (digital, coaxial)*
- Opto (digital, optical)*

The selected source is shown in the display. Each source name can be renamed in order to provide better orienteering - see next page.

If your device only offers an analog output, we recommend using an external analog-digital converter, e.g. from the Lindy or Ligawo Company.

* Supports uncompressed digital audio-stereo input signals, such as PCM Audio or S/PDIF up to 96 kHz/ 24 bit [optical] and coaxial even up to 192 kHz/ 24 bit. **Doesn't support any compressed** audio formats such as Dolby Digital, DTS, 5.1, etc. If necessary, change the output format in the source device's Setup menu.

Rear view "Local sources"

➲ Rename Input

The Symphony offers the option of assigning freely definable names to its digital inputs. You no longer have to remember which external device is connected to which input. You can simply give each input a name that makes the assignment obvious.

To do this, select the field "Rename Input" on the remote control. Both inputs are displayed. You can now change each input using the following buttons on the S208:

◂ Delete
▸ Cursor to the right
OK Select/Confirm
0-9 Direct input of numbers/letters
0, 1 Special characters
Uppercase-Lowercase (blue)

After you have renamed an input and confirmed the change with the **OK** button, it is displayed in the Play view as follows, for example:

The newly assigned name, "CD Player" in this example, is shown within the source logo, while the original name or the input used, is shown above the logo. These means you always have both pieces of information available.

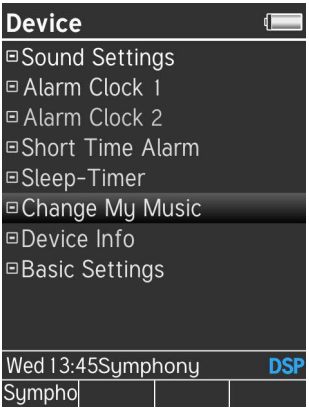
Settings and comfort functions

The Symphony offers a wide range of comfort functions to make the daily usage easier. This includes various alarm clock and timer functions as well as sound control and preferred settings.

As these functions are directly connected with the Symphony, the Symphony must have a connection to the S208 and it must have been selected as a device, e.g. over the corresponding hotkey.

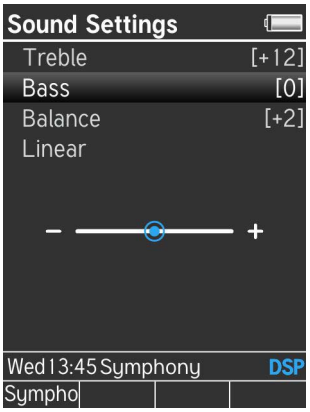
By pressing briefly on the ⊛ button, the Device menu opens with the following selection options:

- **Sound setting**
- **Alarm Clock 1**
- **Alarm Clock 2**
- **Short Time Alarm**
- **Sleep-Timer**
- **Change My Music**
- **Device Info**
- **Basic Settings (Page 27)**



Sound Setting

In this menu, you can raise and lower the base and treble settings in the range of ± 12dB. Outside the neutral mid-range setting, the indicator changes colour from blue to grey.

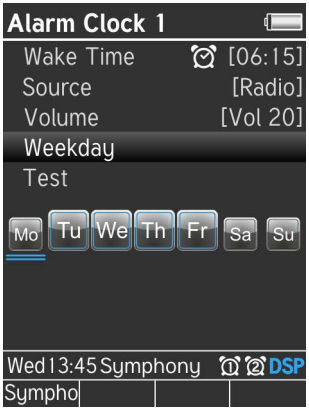


By pressing **Linear**, you can restore the neutral mid-range setting with a single key press, which deactivates the sound control again.

The **Balance** (the level ratio between the left and right speaker channels) can also be adjusted to the installation requirements through the Sound menu. The **Linear** function has no influence on the balance controller.

Alarm Clock 1 / 2

The Symphony has two independent alarm clocks (1/2) that can be set simply and intuitively.



Using the navigation compass, you can set the switch-on time, the sound source, the wake-up volume [max. volume 40] as well as the days of the week when the receiver should wake you up.
The following options are available as the sound source:

- Beep (classical)
- Radio (iRadio, FM Tuner*, DAB+*)
- Audio server
- USB
- iPod
- My Music (No. 1-18)

With all sources, except the beep, you must ensure that the source is available at the preset time. If the Symphony identifies that it is not possible to play the desired source, it automatically selects one that is available. If none of the audio sources can be played, the beep is used as the last option.

The weekday selection is done simply by using the ◂ ▸ buttons and OK. The blue bar = indicates the currently selected day. The day can be activated with OK. A large icon with a blue border indicates a day when the alarm clock will operate. A small black & white icon indicates a day when the alarm clock will remain silent. In the example shown here, the alarm clock is active on Tuesday, Wednesday, Thursday and Friday and is switched off on the other three days of the week.

You can use the **Test** option to check the alarm clock setting in terms of the volume and the source and correct them if necessary. Selecting OK ends the test. Otherwise, the test stops automatically after 30 seconds.

Deactivating the alarm clock
In the "Switch-on time" line, you can activate/deactivate the alarm clock through the **OK** button.

The two icons ⏰⏰ in the status line towards the bottom of the S208 display show which alarm clock is currently active.

The Status LED on the Symphony shows permanently red ● after being switched off if an alarm clock is active.

* with optional DAB+/FM Tuner module

Switching the alarm clock off

When the Symphony switches on at the preset time, there are 3 options when it comes to turning it off:

1. Do nothing. The Symphony switches off automatically after a predefined time of 60 minutes.

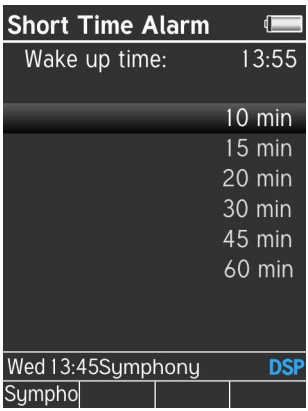
2. The Symphony was turned off **manually** using the **button** prior to the alarm clock being activated. In order to switch the alarm clock/ unit off, connect to it using the hotkey. The following screen is displayed:

Now you can switch the receiver off using the button.

3. The Symphony was turned off automatically using the **Sleep timer** (see page 55) prior to the alarm clock being activated. In this case, a connection is automatically established to the remote control that activated the Sleep timer, when the alarm clock/ unit switches on. The same display as shown under point 2 appears and you can switch the Symphony off with the button.

Short Time Alarm

Using the Symphony's timer, you can enjoy a short nap or a siesta. Start up the Symphony as usual and select a music source. Now using the the timer, you can define how long it should be before the Symphony switches itself back on again. You can choose a time between 10 and 60 minutes. The time shown as **Wake-up time** indicates when the Symphony will switch back on.



Confirm your settings with the OK button.

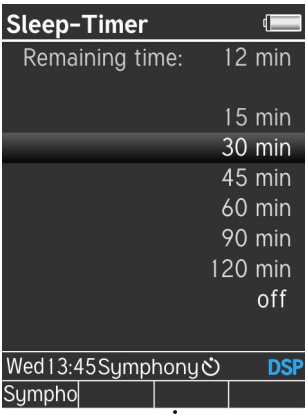
The following display appears on the S208 remote control for about 5 seconds as confirmation: see figure top right. Then the connection to the receiver is dropped and the Symphony switches itself off.

ⓘ
The Status LED on the Symphony shows permanently red ● after being switched off if a timer is active.

After the pre-defined time, the Symphony starts up automatically with the previously selected source. Now, using the *hot keys* or "*Select device*", you can establish a connection to the unit. The Symphony displays the following as a welcome screen:

Sleep-Ttimer

The Sleep timer is a countdown timer that automatically switches the Symphony off, after the time that you define. This function is ideal for getting the Symphony to send you off to sleep.



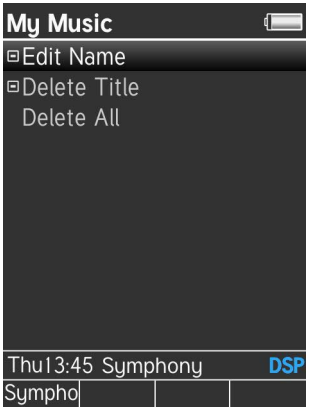
The time shown as the **Remaining time** indicates how many more minutes the Symphony will continue to play until it switches itself off.

Deactivating the sleep timer
If the Sleep timer needs to be ended/ deactivated, you just select the option **Off** in the Sleep timer menu and confirm with the OK button.

This icon in the status line towards the bottom of the S208 display shows that the Sleep timer is active at the moment.

Change My Music

You can change the names or delete entries in *My Music* through the **My Music** menu. Also, the complete **My Music** list can be deleted in this menu.



➲ Edit Name

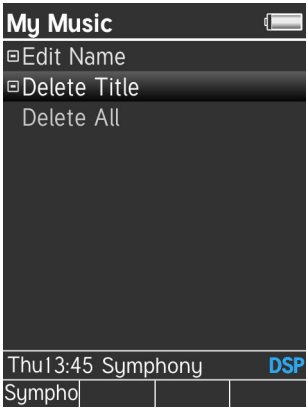
Select the option "Edit Name". The **My Music** list is displayed. Select the entry you want to change. The following buttons on the S208 are available for editing:

◂	Delete
▸	Cursor to the right
OK	Select/Confirm
0-9	Direct input of numbers/letters
0, 1	Special characters
	Uppercase-Lowercase (blue)

➲ Delete Titles from *My Music*

Select the option "Delete Title". The **My Music** list is displayed. Select the entry/title you want to delete. The deletion process is completed with the OK button. The space created can now be filled with a new entry.

The *My Music* entries do not automatically realign to fill the space because, for example, the alarm clock may be programmed with a specific entry in the range from 1 - 18.



➲ Delete All

Select the option "Delete All". The complete *My Music* list will be irretrievably deleted. Confirm the intention to delete with the OK button.

ⓘ Inserting entries, quickly & simply

If you should accidently have deleted all entries or if they have been deleted automatically by a software update, you can restore them quickly, if they were Internet radio stations. Create a folder through the "**Online Services** Internet Portal on www.revox.com that contains all your favourite stations. Next time you start the Symphony with Internet access, this folder will transfer automatically to your Symphony. You will find the folder in the Internet radio **Favourites** selection (see also page 48, Chapter *Internet radio*, section *Favourites*). Here you can call each station directly and add them back to *My music* quickly and easily, with the [**Add to My music**] .

Device info

The Symphony is controlled by 2 micro-processors that handle different tasks, e.g. network activity, audio processing, safety monitoring, wireless connection, timer activity, etc.
The **Device info** menu shows the different software and hardware versions. This display is principally intended for the Revox Development and Service departments and doesn't contain any functions that are needed for day-to-day use.

Basic settings

The **Basic settings** menu offers all those settings that are not needed every day, e.g. automatic switch-off, audio setup or renaming the device.
You will find a detailed description of the options within the Symphony Basic settings starting, Chapter *Basic settings*.

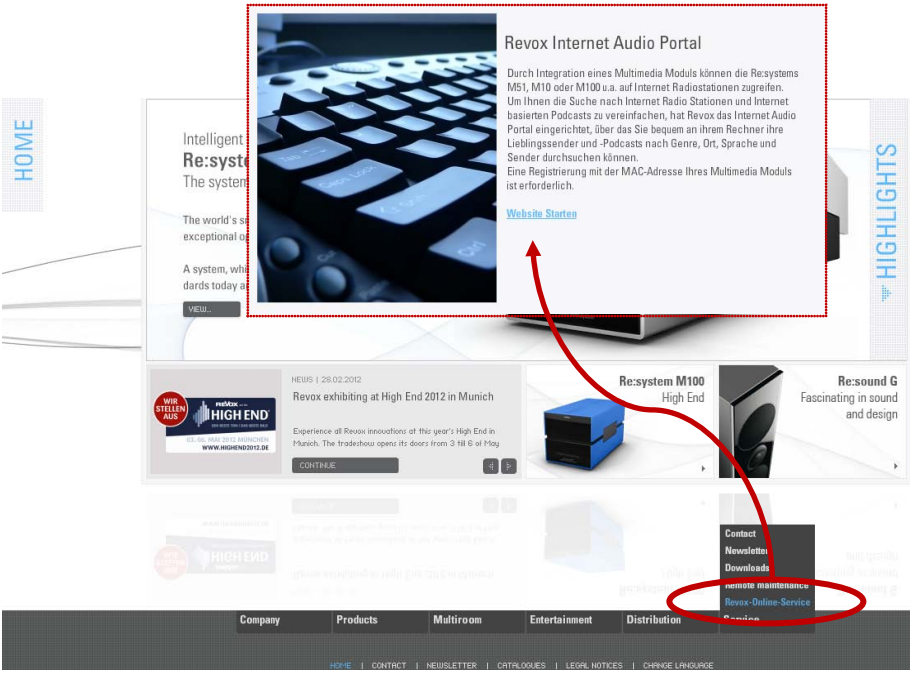
Setting up Internet Radio

The list of radio stations that appears in the **Internet Radio** section of your Symphony is made available by a service provider and transferred to your Symphony through the Internet connection. You can extend and edit the **Favourites** and **Added radio stations** lists in the Internet-Radio menu as you wish, through **Support ▸ Revox- Online-Services** in Revox's Internet Portal.

This is done as follows: Open your Internet browser and call the Revox Homepage under:

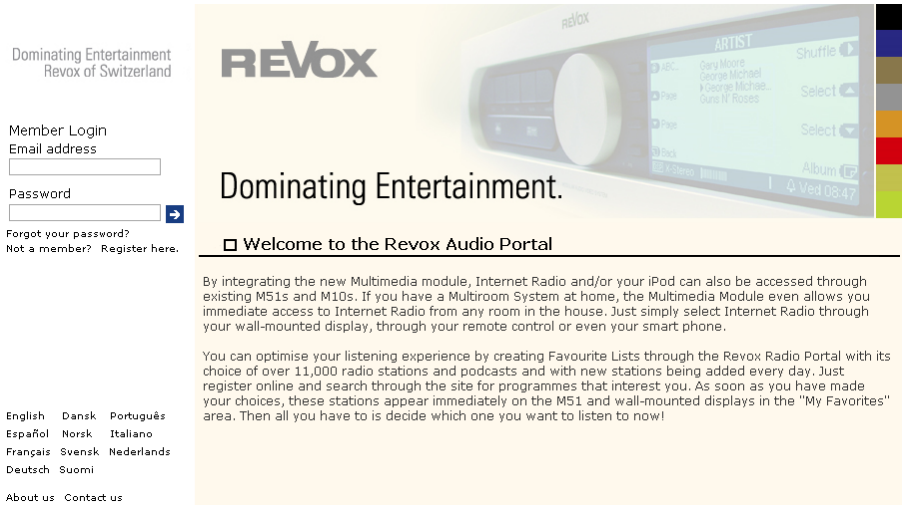
www.revox.de	Germany
www.revox.ch	Switzerland
www.revox.com	English

Clicking on Revox-Online-Service calls the Revox **Internet Audio Portal** where you can register and configure your Symphony.


Revox Internet Audio Portal
Durch Integration eines Multimedia Moduls können die Re:systems M51, M10 oder M100 u.a. auf Internet Radiostationen zugreifen. Um Ihnen die Suche nach Internet Radio Stationen und Internet basierten Podcasts zu vereinfachen, hat Revox das Internet Audio Portal eingerichtet, über das Sie bequem an ihrem Rechner ihre Lieblingssender und -Podcasts nach Genre, Ort, Sprache und Sender durchsuchen können.
Eine Registrierung mit der MAC-Adresse Ihres Multimedia Moduls ist erforderlich.
Website Starten
HOME
HIGHLIGHTS
Re:system M100
High End
Re:sound G
Fascinating in sound and design
Revox exhibiting at High End 2012 in Munich
CONTINUE
Contact
Downloads
Revox-Online-Service
Company
Products
Multiroom
Entertainment
Distribution

Internet Audio Portal - IAP

In the **I**nternet **A**udio **P**ortal (**IAP**) you can login in (*Member Login*) if your Symphony is already registered. If this is not the case, you can register with little effort. How to do this is described in the next chapter: *Initial login*


Dominating Entertainment
Revox of Switzerland
Member Login
Email address
Password
Forgot your password?
Not a member? Register here.
English Dansk Português
Español Norsk Italiano
Français Svensk Nederlands
Deutsch Suomi
About us Contact us
REVOX
Dominating Entertainment.
Welcome to the Revox Audio Portal
By integrating the new Multimedia module, Internet Radio and/or your iPod can also be accessed through existing M51s and M10s. If you have a Multiroom System at home, the Multimedia Module even allows you immediate access to Internet Radio from any room in the house. Just simply select Internet Radio through your wall-mounted display, through your remote control or even your smart phone.
You can optimise your listening experience by creating Favourite Lists through the Revox Radio Portal with its choice of over 11,000 radio stations and podcasts and with new stations being added every day. Just register online and search through the site for programmes that interest you. As soon as you have made your choices, these stations appear immediately on the M51 and wall-mounted displays in the "My Favorites" area. Then all you have to is decide which one you want to listen to now!

Revox Internet Audio Portal start page

Initial login

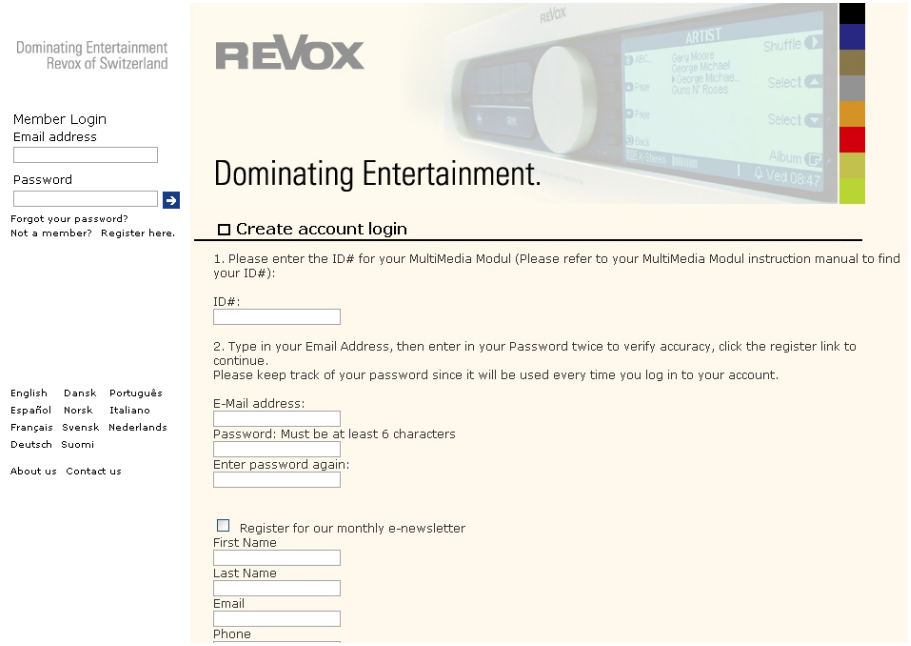
You must register your Symphony in order to be able to use the **IAP** service. Registration is done using the MAC address of your Symphony, your e-mail address and a password that you define yourself.

Please enter the **MAC** address of your Symphony when making your initial login. This uniquely identifies your Symphony. You can display the MAC address by calling the following menu: Press the ⚙ button briefly ↴ **Device** ↴ **Basic settings** ↴ **Network** ↴ **MAC address** (see figure to the right).

The MAC address is made up of six pairs of characters, e.g.: **00:1A:2B:6D:08:15**. Don't enter the separators when inputting the address and do use lower-case letters. For the example shown above, the correct input in the IAP would be: **001a2b6d0815**

Alternatively, you can read off the MAC address from the label on the rear of the device (see figure below).

IAP Registration page


Dominating Entertainment
Revox of Switzerland
Member Login
Email address
Password
Forgot your password?
Not a member? Register here.
English Dansk Português
Español Norsk Italiano
Français Svensk Nederlands
Deutsch Suomi
About us Contact us
REVOX
Dominating Entertainment.
Create account login
1. Please enter the ID# for your MultiMedia Modul (Please refer to your MultiMedia Modul instruction manual to find your ID#):
ID#:
2. Type in your Email Address, then enter in your Password twice to verify accuracy, click the register link to continue.
Please keep track of your password since it will be used every time you log in to your account.
E-Mail address:
Password: Must be at least 6 characters
Enter password again:
Register for our monthly e-newsletter
First Name
Last Name
Email
Phone

IAP registration form

Note

If you are using several Symphonys, each one has to be registered individually.

Register for online newsletter

If required, you can subscribe to the free-of-charge Revox Newsletter, which is sent by e-mail. To do this, you just have to complete the corresponding fields and set the checkbox in the corresponding field.

You can transfer a one-time generated **Favorites** list from one Symphony all others. This is also done in the IAP under the section:

My account
⇨ My preferences

Managing the Revox IAP

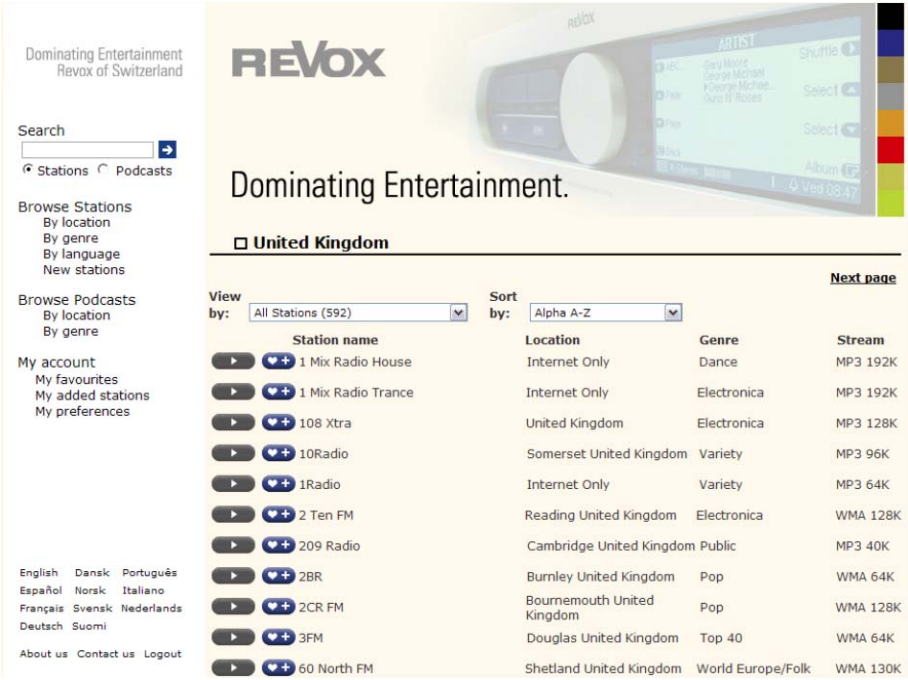
Once you have registered, you can make a selection for the extensive pool of radio stations and add it to the favourites list (*Favorites*), add new radio stations to *Added Stations* or search for podcasts.

The transfer of the lists to your Symphony happens automatically over the Internet connection. Shortly after editing your list or adding new stations in the IAP, you will find these changes on your Symphony.

Currently, you can make selections on the Internet Audio Portal according to the following criteria:

Browse Stations
- By location
- By genre
- By language
- New stations

Browse Podcasts
- By location
- By genre



Radio station listing in the IAP

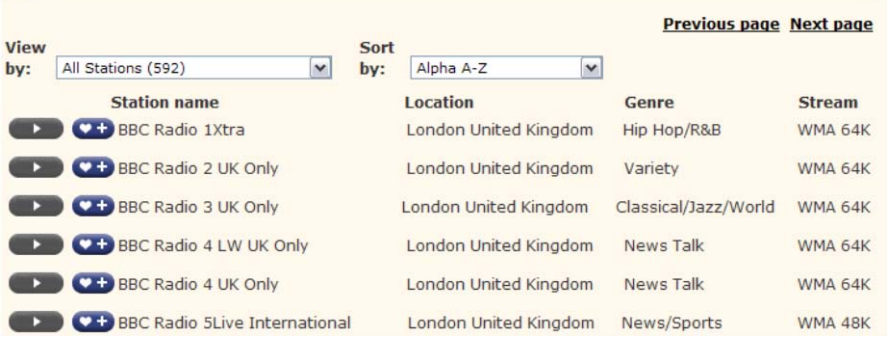
Adding radio stations to Favorits

Clicking on the in the station list adds the corresponding radio station to the **Favourites** in the receivers *Internet Radio* selection.

This opens the window shown on the right where you can decide which favourite group the radio station should be added to or if you want to create a new favourites group for it.

A **maximum of 9 groups** can be generated to organise your favourites.

Favourite stations.
Close
Choose a favourites group and click "Go" to add the Station BBC Radio 2 UK Only to your Favourites.
Create new favourites group with your station
Go
Internet
100%



Synchronising Joy devices

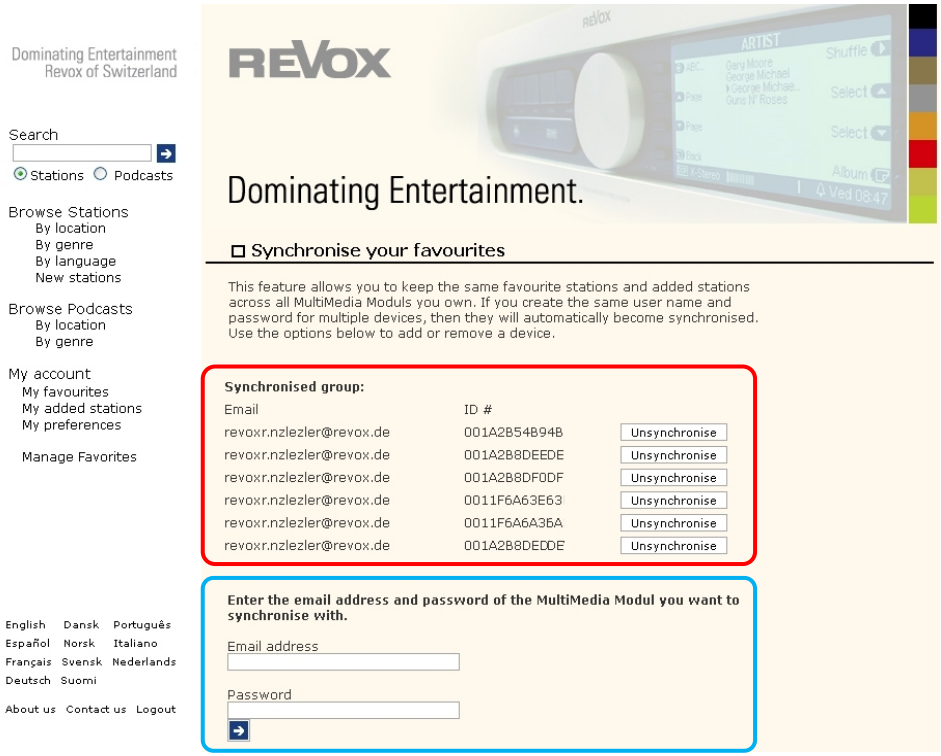
If you own several Revox devices (Symphony, S118, S119,S120, Multimedia Module from the M series), you can synchronise your Favourites list and added radio stations with each other. This means you create your Favourites list one time and it can then be called from all registered Joy devices.

Several devices, one account

The easiest way is to enter the **individual** MAC addresses the first time you register each device but give the **same** e-mail address and the **same** password for all devices (see the red box below).

Several devices, different accounts

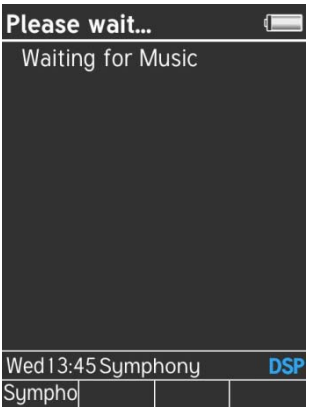
If you have generated several devices with different accounts (e-mail address + password), you can retrospectively synchronise them with each other (see the blue box below). Here, you simply enter the accounts of the devices, which should also use these Favourites. If Favourites have already been created for the other devices, these are not displayed. If you use an individual account for the devices, only **one** device should also be assigned to this, as otherwise there can be link-up conflicts.



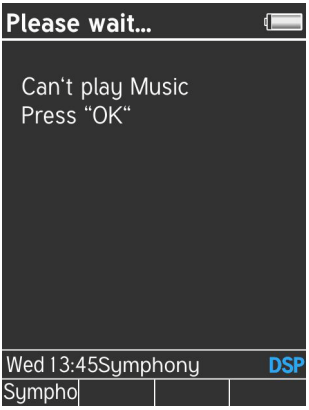
Error messages

A. Music content not available

Music content has been selected that is no longer available, e.g. a *My Music* entry that points to a track on a USB stick that has been removed from the Symphony.
The Symphony tries for a few seconds to start the music.

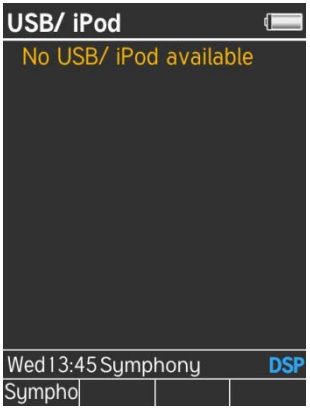


The following message appears if it was not possible to start the choice:



B. Music source not available

A music source has been selected that is no longer available, e.g. an iPod from Apple that is no longer connected to the Symphony.



ⓘNon-available sources are indicated in the Main menu by the ☐ character. If the source is available, the square is filled in ⊡. At the beginning of the start-up process, not all sources are available even though they are present. Please wait until the Status LED on the front panel of the Symphony lights up white.
The local inputs are always available in the Source menu, even when they have no connection to another device.

C. Device doesn't respond

The following display appears after you have started a Symphony using the hotkey or through "Select device":

Possible causes:

- The Symphony is outside the range of the remote control. Try to establish a connection again from within sight of the Symphony.
- The Symphony already has a wireless connection to another remote control and therefore cannot connect with your S208.
- The pairing identification has been lost. If necessary, carry out another pairing process - see page 23.
- A radio transmitter is causing massive interference in the 2.4 GHz range and preventing a wireless connection between the Revox devices.

D. Radio not available

The following display appears after selecting Internet radio:

As a rule, this display is caused because no Internet connection could be established. There can be several reasons for this.

- The network cable to the router is not plugged in or a crossover network cable has been used.
- As a factory setting, the Symphony is set to DHCP, which means that it gets its IP address automatically from the router. DHCP must therefore be possible and/or activated in the router settings. If this is not wanted, the Symphony can also be assigned a fixed IP address. See Chapter *Network settings*
- The firewall is blocking access. See Chapter *NETWORK QUESTIONS / TIPS*

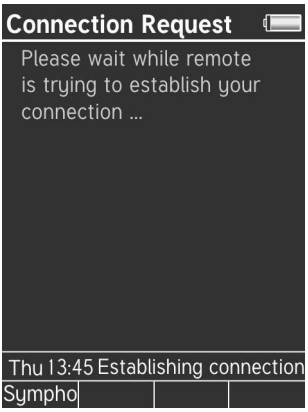
- WLAN connection. The WLAN antenna at the Symphony / the WLAN router is not available. The WLAN function is deactivated at the router or the router is switched off.
  See Chapter *Network settings* and *WLAN status*.

  The Main menu is called by pressing the ⌂ Home button on the S208.

You will find more information about setting up and operating the Symphony in the chapters *Settings* and *Operation*.

Status messages

A. Switching the device on


Connection Request
Please wait while remote is trying to establish your connection ...
Thu 13:45 Establishing connection
Sympho

This display appears shortly after the Symphony is switched on. The remote control is trying to establish a connection to the selected receiver.

B. Waiting for the network

A wireless connection between the remote control and the Symphony is in place. However, there is not yet an Internet connection for the selected source, e.g. Internet radio.

C. Switching the device off

The S208 remote control has switched the Symphony off and the wireless connection to it is interrupted.

Network terminology 🕮

General

The network switch ensures the correct connections between the individual components. In order to make this possible, each device within a network must be capable of being uniquely identified. Each component therefore, is given its own address, the so-called IP address. The IP address is made up four blocks of numbers, each of which can contain up to three digits. These blocks of numbers are separated by a full stop, e.g. 192.168.1.1.

Each of the individual blocks of digits can have a value between 1 and 254. The values 0 and 255 are in part reserved for special functions and therefore shouldn't be used. In order to ensure a secure function of your network, addresses from the pre-defined range should be used, i.e.: fundamentally, the first two blocks should be 192.168.xxx.xxx; the third block can be selected from the values in the range mentioned above (must be the same for all the devices within a network however) and the fourth block should be used to differentiate each device, e.g.:

	Symphony	192.168.001.001
	NAS:	192.168.001.002
	PC:	192.168.001.003

If you don't just want to use devices within the local network but also music sources from the Internet (Internet radio), the Symphony must have the possibility of being able to access the Internet. This can be achieved, for example, through a router with a connection to a DSL network. This router is also a part of the network and will be assigned its own IP address. In order to enable this connection to the outside world actually to be established, the Symphony must additionally be informed of the address of the router (Gateway).

It must be ensured that the first three blocks of the Device IP, the Gateway IP and the DNS 1 are within the same address range, e.g. 192.168.0.xxx. The fourth block assigns a unique address ("house number") to the components in the local network. This number may only occur once within the local network. The Device IP mask should always be given the address 255.255.255.0.

DNS

The **D**omain **N**ame **S**ystem (DNS) is one of the most important services in the Internet. Its main task is that of converting Internet address like www.revox.de for example, into its corresponding IP address. As a rule, the router in home networks fulfils the function of the DNS.

If you should decide for the manual network configuration (without DHCP), just enter the address of your router as the DNS address during network configuration.

LANLocal Area Network

Local cabled network

A LAN connection to the Symphony is the most fault-tolerant and problem free transmission technology, which offers much more security against eavesdropping than WLANs or Power LANs.

Gateway

The computer or router in your network through which the data traffic with the world outside your network, i.e. the Internet is handled.

Client

Network device that draws data out of the network, decodes it and converts it for example, into analogue music signals, which then can be played through amplifiers and speakers. Streaming clients also contain functions for displaying media content and for navigating in the Internet or on servers.

DHCP

DHCP is an abbreviation for **D**ynamic **H**ost **C**onfiguration **P**rotocol. DHCP is primarily used to enable clients to fetch their network configuration automatically from a server or router. The Symphony supports DHCP.

IP Address

Network address. Each device in the network needs an IP address through which it can be reached and uniquely identified. Network addresses may not occur twice. This is important if network addresses are assigned manually. If addresses are issued in your network through DHCP, you don't need to worry about the IP address assignment as the DHCL server automatically handles the question of address management.

MAC Address

The MAC address (**M**edia **A**ccess **C**ontrol) is the unique hardware address that is used for the unambiguous identification of the device in the network.

With the Symphony the MAC address can either be read out in the basic Settings/ Network or alternatively, from the MAC sticker on the back of the Symphony.

NAS

Network **A**ttached **S**torage. As a rule, this is a storage device with a very large capacity > 500 GB, which other devices can access. If the NAS server contains an UPnP-AV server service, the Symphony can access and play media files that are stored on the NAS.

Recommendations NAS

- **Revox S37 RipNAS**
- **Synology**
- **QNAP** with *Twonky Media Server*
- **Buffalo** *Link Station*

Power Line – LAN

With the Power Line LAN, data is transmitted through the existing power cable network. So-called Power Line Modems are required on the transmitter and receiver side. As a rule, Power Line LANs offer reasonably fault-free data transmission with a data rate sufficient for audio streaming. We recommend Power Line Modems with bit rates of 85 or 200 MBit/s.

Proxy Server

A proxy or proxy server is a computer in the network that makes data transfer quicker and more efficient and that can also increase security by deploying access control mechanisms. Usually, you do not find proxy servers in home networks. TheSymphony does not support the use of a proxy server.

Router (WLAN Router)

A central network device that establishes and manages the communication between the network devices. Current devices increasing combine the function of the router with the function of an access point for wireless data communication. These combi-devices are often referred to as WLAN routers.
Normally, the (WLAN) router in a network takes on the function of the gateway to the outside world.

Server

A network device that makes data and services available for other devices in the network. A UPnP-AV server stores for example, audio and video media data and makes this data available to other devices, the streaming clients. Often, UPnP-AV servers also offer functions for the cataloguing and easy identification of medial content according to criteria such as artist, album name, genre, etc.

SSID

Service **S**et **Id**entifier / Network name. SSID designates the identification of a radio network that is based on IEEE 802.11. Each WLAN has a configurable, so-called SSID or **ESSID** (**E**xtended **S**ervice **S**et **ID**entifier), to identify the radio network.
The SSID character string can be up to 32 characters long. It is configured in the base station (WLAN router / Access point) of a wireless LAN and defined on all the clients that should have access to it. Do not use SSID names with blanks / special characters.

UPnP-AV

***U**niversal **P**lug a**n**d **P**lay – **A**udio **V**ideo*
Network standard that makes media content, e.g. on PCs or NAS discs accessible in networks. A UPnP-AV software must be installed on PCs /NAS storage so that the Symphony can access the stored media data.

Below, you will find a short overview of UPnP software that is suitable for the different operating systems:

Windows:
Twonky Media Server
http://www.twonkyvision.com/
Windows Media Player *11*
http://www.microsoft.com/windows/windowsmedia/de/default.aspx

Mac:
Twonky Media Server for Mac
http://www.twonkyvision.com/

Linux:
Mediatomb
http://mediatomb.cc/
GmediaServer
http://www.gnu.org/software/gmediaserver/

WLAN

(W-LAN, Wireless LAN)
Radio network. Network connection is done using radio waves in the 2.4 GHz frequency range. Radio networks are easy to install as no cables have to be laid but are often problematic and unreliable, particularly over longer transmission distances. In many cases, Power Line networks that also don't require any cabling are a better choice.

In each case, the installation of a network cable is the most fault-tolerant and problem free transmission technology. An additional point is that cabled networks don't produce any electro smog.

WPA

Wi-Fi **P**rotected **A**ccess (WPA)
WPA contains the architecture of WEP, but offers additional protection through dynamic keys that are based on the following (***Cipher***) standards:
*- **T**emporal **K**ey **I**ntegrity **P**rotocol* (TKIP) *- **A**dvanced **E**ncryption **S**tandard* (AES)

WPA offers **P**re- **S**hared **K**eys (PSK) for authentication or **E**xtensible **A**uthentication **P**rotocol (EAP) through IEEE 802.1x.

The Symphony is based on the authentication PSK and supports both the WPA encryption TKIP and AES.

WEP

Wired **E**quivalent **P**rivacy (WEP) is the previously used standard encryption algorithm for WLANs. It should control access to the network as well as ensuring the confidentiality and integrity of the data. Because of various weak spots, the process is considered to be unsafe. For this reason, WLAN installations should use the more secure WPA encryption. See WPA.
With WPE authentication, a distinction is drawn between two processes:

Open

Open System Authentication is the standard authentication. The WEP key is used at the same time for authentication: Each client with the correct WEP key gets access to the network.

Shared

Shared Key Authentication is reputed to be the more secure version. In this case, authentication is done through the Challenge-Response authentication, with a secret key. However, the Challenge-Response process is also based on WEP and demonstrates the same weaknesses.

The Symphony offers both *Open* and *Shared* WEP authentication.

Wi-Fi

Certificate for WLAN products that work according to IEEE802.11 standards and are compatible with other products.

Network: Questions & Answers

NETWORK IS OK BUT THERE IS NO SOUND.

You should be aware that the Symphony cannot support all data formats that are available on the Internet. It can occur that a station cannot be played. See *Technical data*

Other reasons why your Internet radio doesn't play:

- Not all radio stations broadcast 24/7
- Radio stations may not be available any more
- The Revox equipment is muted
- The provider's (Radio Sender/ Provider) server capacity is fully utilised

Transmission within your network breaks down because:

- (Internet) network problems
- Server capacity fully utilised

NETWORK QUESTIONS / TIPS

The connection is lost after a few minutes:

System-based characteristic of the UPnP standard. Useful communication starts at a port numbered above 1024 and changes this regularly during operation. Not all firewall programs recognise this knocking on different doors as a continuous connection. Depending on the configuration, the firewall decides, in a case of doubt, against an unknown client.

Depending on the firewall software, this can be resolved through the following actions:

- By using a fixed IP and without DHCP, define the Symphony as a so-called Trusted Host, i.e. a device from which all communication is considered to be trustworthy.
- Allow the server to accept incoming and outgoing communication with the Symphony over ports 1024 - 65535.

Activate the exception setting for "UPnP Framework", e.g. Windows XP Firewall or activate "Permit UPnP communication".

NETWORK QUESTIONS / TIPS

The Symphony finds my Access Point, however my computer is not displayed.

- Make sure you have installed an UPnP server on your computer and that this is also activated. Depending on the amount of data and the software, it can take a few seconds before the option appears as a selection on the Symphony.
- You have activated a MAC address filter on your router. In this case, add the Symphony MAC address to you router configuration.
- Your router only assigns fixed IPs. Deactivate DHCP and enter in this case, a fixed IP address in the Symphony.

My Access Point (SSID) is not listed.

- The Symphony can only find your Access Point if it is within range. Reduce the distance to the Access Point and try again.
- Depending on the configuration, the router's SSID may be hidden. If this option is activated, the SSID must be entered manually in the Symphony Network menu.

NETWORK QUESTIONS / TIPS

A lot of Access Points are displayed that are unknown to me.

If several Access point, for example those installed in neighbouring buildings are available to the Symphony, these will also be listed. Select your Access Point and continue with the configuration.

The Symphony indicates to me that my network is encrypted.

Your network is protected against external attacks with an encryption (WEP / WPA(2)). Enter your key in the Symphony Setup so that the Symphony is identified as a "User" in the network.

Where do I get my key from?

If you installed your network yourself, you will have defined it as part of that work. Otherwise, you will get it from your System Administrator.

Can other data on my network hard disc or server by read or viewed?

No, the Symphony can only receive data that is released by the UPnP server. In this way, the Symphony only accesses your files. Other data on your server is not transferred and cannot be viewed.

NETWORK QUESTIONS / TIPS

Network activity?

Two LEDs are integrated in the Symphony network socket, which display the bus activity. If the network connection is working, the orange LED lights up permanently while the flashing of the green LED indicates that data exchange is taking place.

Point-to-Point

If the Symphony is connected directly to a PC without using a router, cabling is done using a **Crossover Cable**.

Distribution with Router

If the Symphony is connected to the network through a router, a **Patch cable** (1:1) is to be used.

Network setting?

Have all the Symphony Setup settings been correctly applied and has a restart been carried out following any changes?

Ping test?

Does the Symphony respond to a Ping attempt? Is it recognised in the network? The Symphony's deployed or assigned IP address can be seen in the device Basic settings/Network.

NETWORK QUESTIONS / TIPS

Encryption protocol?

Is the implemented encryption protocol (WEP, WPA-SK) and/or the corresponding key correct?

My WLAN connection?

Was my Access Point/WLAN router or one from a neighbouring system selected, which because of its locational proximity, can also be received?

Appendix

Warranty

Warranty covers a period of 24 months from the purchasing date. Your specialist dealer is your first contact if you need service help. If he is unable to assist you, send your device, carriage free, without accessories to your national Sales Office.
Please supply a complete description of the fault together with your address.

Copyright advice

iPod is a registered trademark of Apple Inc. in the USA and/or other countries. iPhone is a registered trademark of Apple Inc. All other brand and product names cited are trademarks or registered trademarks of their respective holders.

Environmental protection

Packaging

We recommend keeping the original box and packaging material so that if required, the device can be transported safely.

Symphony

Please note: The EU Directive 2002/96/EC governs the correct return, handling and recycling of used electronic devices. For this reason, electronic used devices must be disposed of separately. This device should not be disposed of with normal domestic waste. You can take your used device free-of-charge to recognised disposal points. You can get further information about the return of such devices from your local authority, also in non-EU countries.

Disposal of the S208 Remote control

The S208 remote control must be disposed of in accordance with valid legislation and regulations. As this product contains a rechargeable battery, it should not be disposed of with normal domestic waste. You must dispose of your S208 remote control when it reaches the end of its working life, in accordance with the corresponding regulations and legislation.

Technical data 1/2

Output	Measurement	Measuring conditions
Output performance RMS	2 x 25 W	1 kHz at 4 Ohm load
Damping factor	20	1 kHz at 8 Ohm load
Dynamic range	100dB	A-weighted
Channel separation	> 55 dB	1 kHz, 1 Watt at 4 Ohms
Harmonic distortion	0,05 % > 0,5 %	1 W at 4 Ohm 25W at 4 Ohm
Device data		
Speakers	2 x 108mm coaxial-chassis 2-Way bass reflex principle	
Max. SPL	105 dB	1m / Pink Noise / Stereo
Frequency range	42 Hz – 22 kHz	IEC
Symphony-S208 distances	65m	Open space
Dimensions with feet	141 x 500 x 300 [1]	H x W x D[1] (without sockets)
Weight	7,3 kg	Without packaging
Temperature range	+10°...40°C	DIN 40040
AC-Power	100-240 VAC/ 50-60Hz	
Power consumption [2]	80 W 5,5 W < 4.5 W 0.6 W	Maximum power Normal operation Quickstart: On Quickstart: Off
External inputs		
Digital inputs	1 x Optical 16, 20, 24 bit PCM S/PDIF up to 96 kHz	
	1 x Coaxial 16, 20, 24 bit PCM S/PDIF up to 192 kHz	

[1] Please allow for another 50 - 60 mm for cable and plug
[2] Measured without external devices

Technical data 2/2

FM-Part / Tuner module [3]	Measurement	Measuring conditions
Frequency range	87,5 – 108,0 MHz	
SN ratio (Stereo)	> 44 dB > 46 dB > 54 dB	25 dBµV / 1 kHz 42 dBµV / 1 kHz 65 dBµV / 1 kHz
Distortion THD+N	< 0,35%	65 dBµV / 1 kHz
Crosstalk	> 37 dB	65 dBµV / 1 kHz
DAB-Part / Tuner module [3]		
Frequency range	174,0 – 230,0 MHz	
Distortion THD+N	< 0,006%	65 dBµV / 1 kHz
Crosstalk	> 90 dB	65 dBµV / 1 kHz
Playable formats		
Streaming Client [4]:	WAV (192 kHz,32 bit), FLAC (192 kHz, 24 bit), AIFF (32 bit), AAC, MP3 (cbr +vbr, 320 kB), OGG-Vorbis, WMA	
Supported Gapless formats	WAV, FLAC, AIFF, MP3 (requires Lame gapless tags: MP3_ACCURATE_LENGTH, ENC_DELAY, ENC_PADDING) and AAC (requires gapless tag "iTunSMPB" as set by iTunes)	
Playlists:	M3U, PLS	
Internet Radio Data Base	Revox Internet Audio Portal (Online Services)	
Supported Mediaserver	UPnP-AV 1.1 and DLNA compatible Server Microsoft Windows Media	

[3] Optional accessory

[4] The audio formats listed must be supported by the UPnP server so that the Symphony can play them. It is not enough for the audio files simply to exist on the server

Software Revox Joy Symphony: Version1.8
Firmware Revox Joy S208: Version 1.19 with EasyCreator 1.31

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Irrtümer und technische Änderungen vorbehalten. E&EO

User manual Revox Joy Symphony

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